

FIG. 1
(Prior Art)

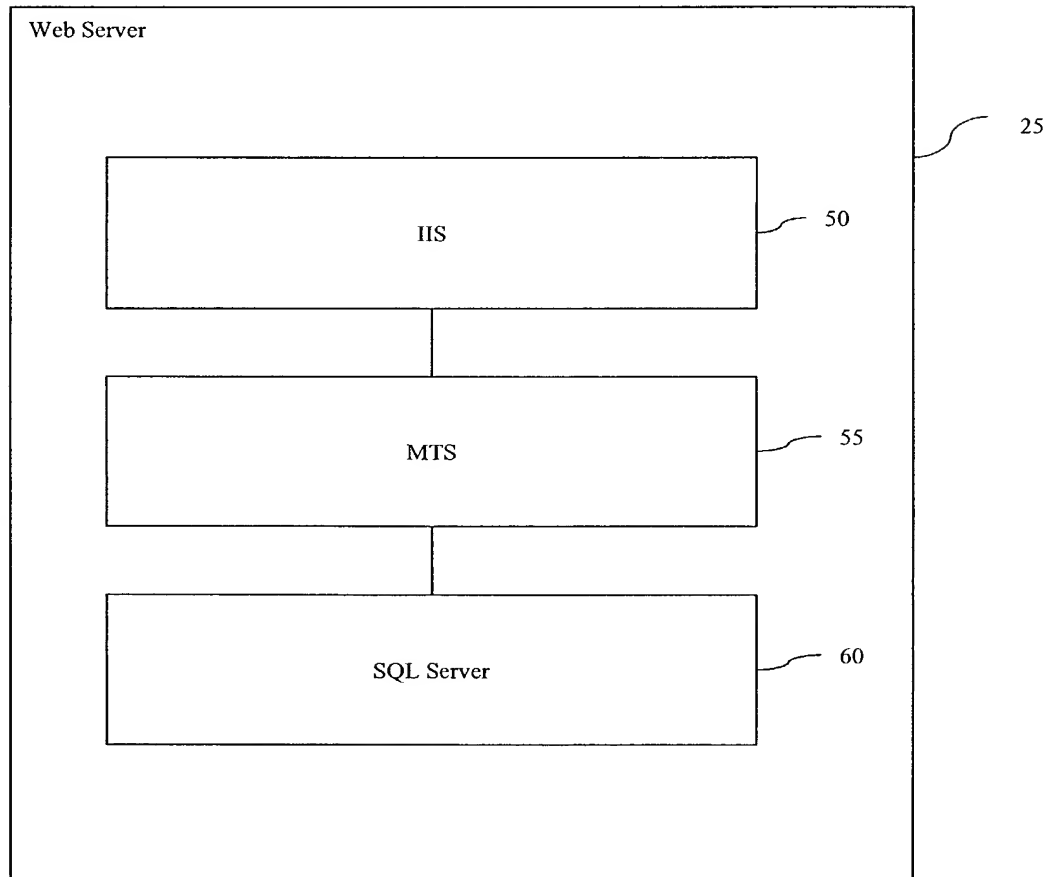


FIG.2
(Prior Art)

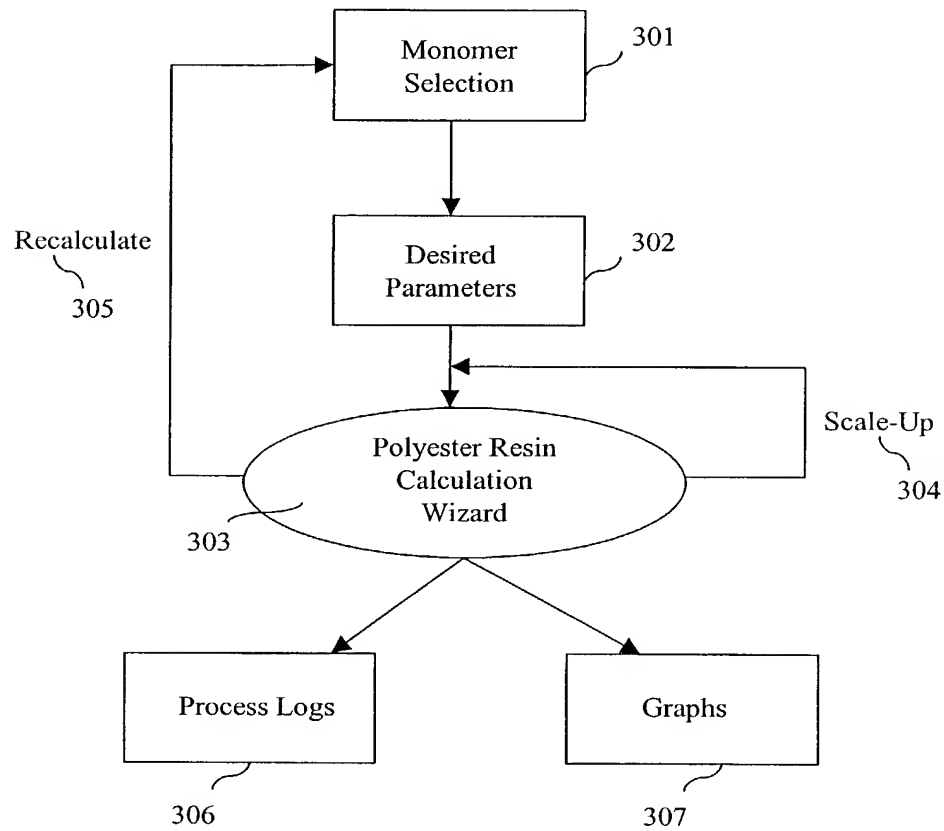


FIGURE 3A

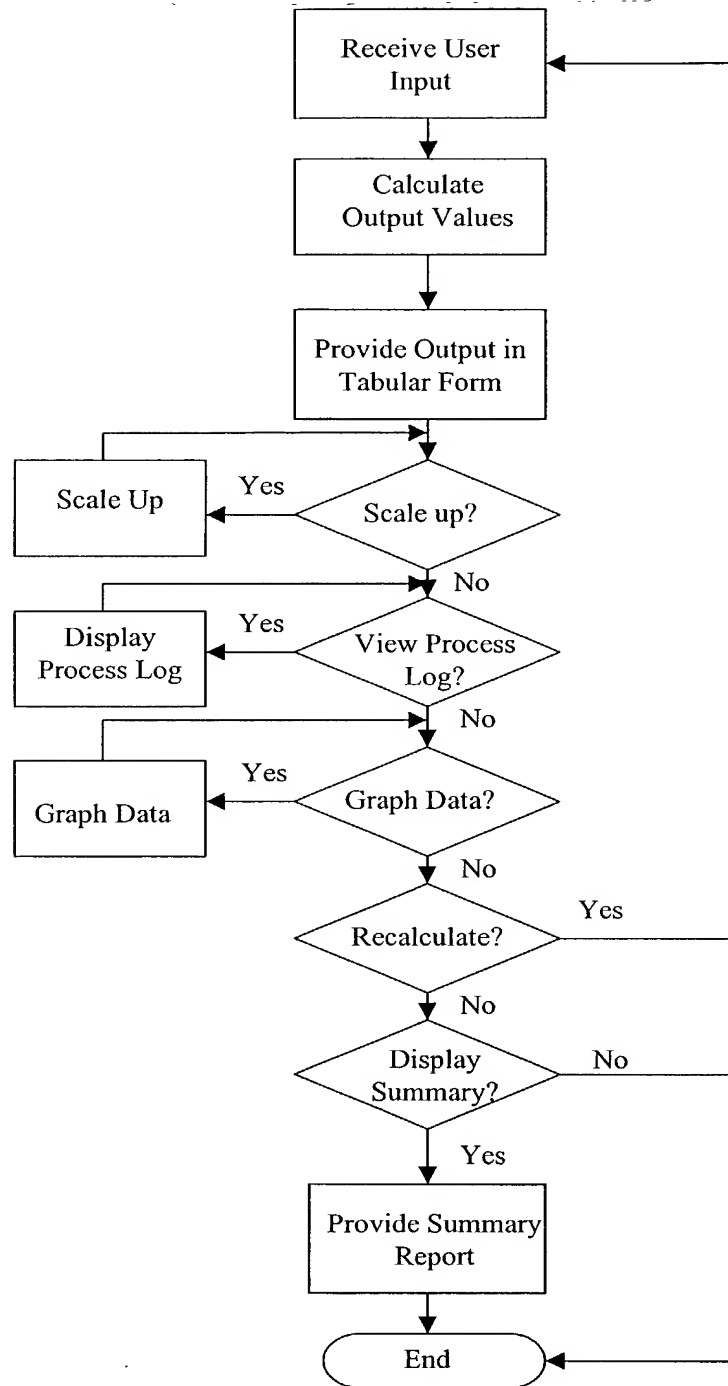


FIGURE 3B

2 Polyester Resin Calculation - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP

File Edit View Favorites Tools Help

Address http://www.eastman.com/Wizards/ResinCalculationProgram/RCPMonomerSelect.asp

Wizard
 Chemical Solutions

Polyester Resin Calculation 300 **EASTMAN**

Contact Us 391 **How To Use The Wizard** 312 **Close Window** 393

***=Required Field**

Designator (Resin Name) 310

Monomer Selection 314

Click here to Add Unlisted Monomer 318

1,2-epoxypropane
 1,2-Propylene Glycol
 1,3-Butanediol
 1,3-Cyclohexanedicarboxylic Acid
 1,4-Butanediol

HELP? 390

Excess: 352
 Hydroxy C Acid 354

Add Selected Monomers to the table below 316

Name 330	Molecular Weight 332	Acid Groups 334	Hydroxyl Groups 336	Condensate from the Acid 338	Condensate from the Hydroxyl 340	Weight Fraction Monomer in Resin 346	Weight Fraction Molety In Monomer 348	Raw Material Cost 350	
1,6-Hexanediol	118.16	0	2	0	0	0.847676	0		Delete 320A
Naphthalenedicarboxylic Acid 322	216.11	2	0	0	0	0.916709	0		Delete 320B

Clear all Monomer Selected

Click here to Continue 356

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331 333 335

FIGURE 3C

000009-1

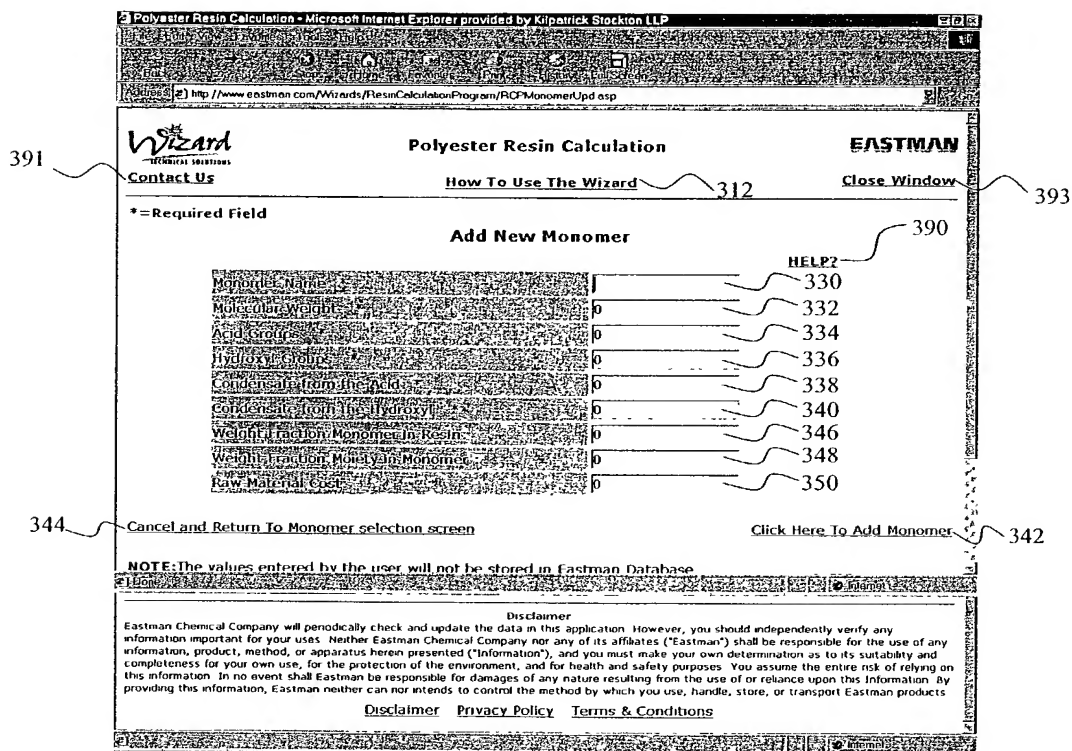


FIGURE 3D

10039482 . 042502

2 Polyester Resin Calculation - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP

File Edit View Favorites Tools Help

Address http://www.eastman.com/Wizards/ResinCalculationProgram/RCP/MonomerConst.asp

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391 Contact Us 312 How To Use The Wizard Close Window 393

358 Return To Selection Screen

Parameters for Hydroxyl Excess Resins

*** 0 Parameters Remain Unspecified *** HELP? 390

368 360

Excess Hydroxyl Equivalents % 100 Hydroxyl Equivalent Weight 10

Patton (K) Constant Number Average Molecular Weight 372

370 362 376

380 Use Acid Hydroxyl Ratios Yes No 390

382 Weight Ratios & Weight % Charge Final 378 Batch Size 100 376

364 366

Monomer Molar Ratios Weight Ratios Weight %

1,6-Hexanediol

2,6-Naphthalenedicarboxylic Acid

374

386 Clear all Parameters Click here to Continue 384

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FIGURE 3E

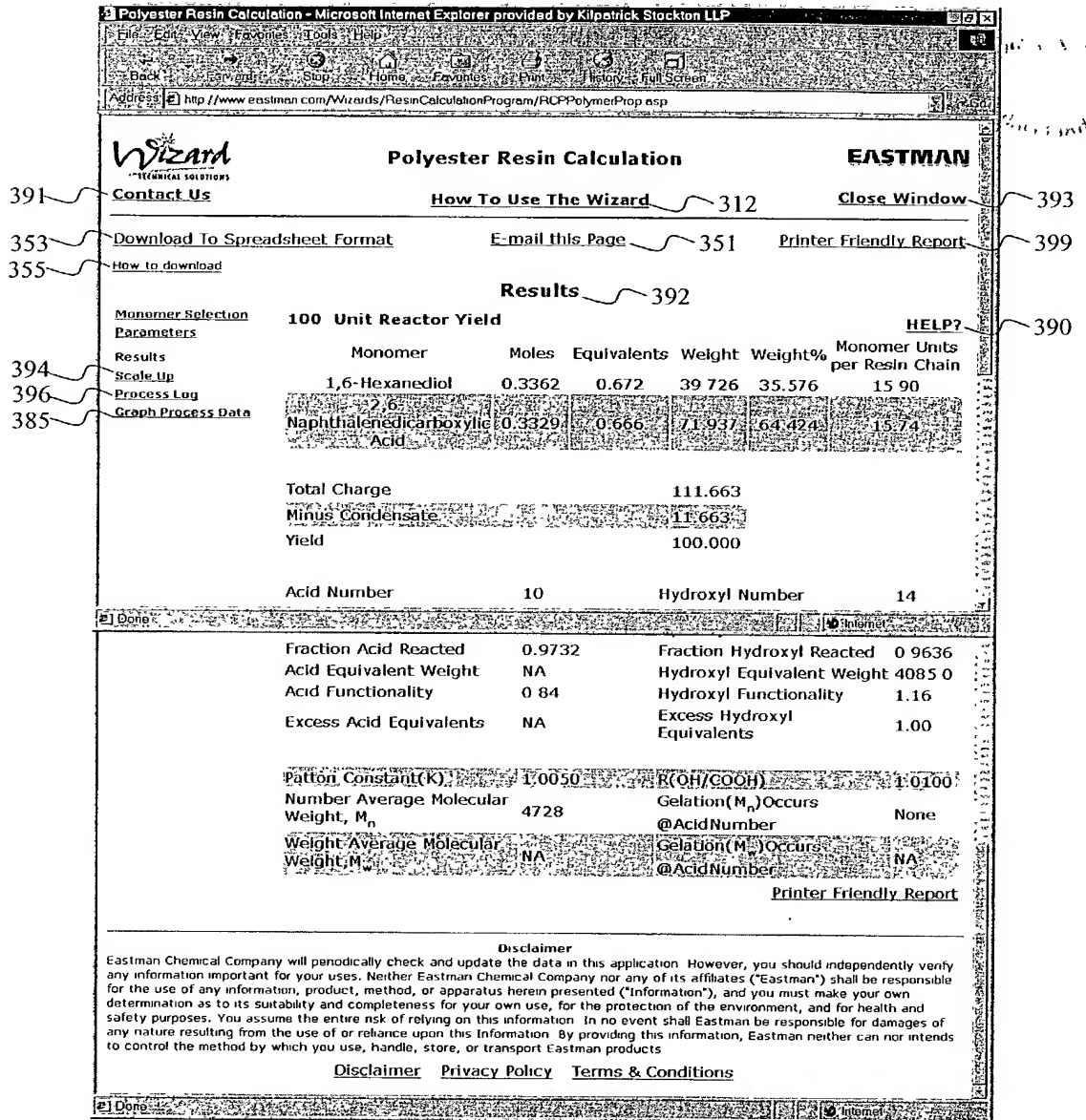


FIGURE 3F

Polyester Resin Calculation - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP

Address: <http://www.eastman.com/Wizards/ResinCalculationProgram/RCPPolymerProp.asp>

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Polyester Resin Calculation

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Results 392

[Monomer Selection](#) [Parameters](#) [Results](#) [Scale Up](#) [Process Log](#) [Graph Process Data](#)

3000 Unit Reactor Charge

Monomer	Moles	Equivalents	Weight	Weight%	Monomer Units per Resin Chain
1,6-Hexanediol	9.0326	18.065	1067.292	35.576	15.90
2,6-Naphthalenedicarboxylic Acid	8.9432	17.886	1932.708	64.424	15.74
Total Charge			3000.000		
Minus Condensate			313.350		
Yield			2686.650		

[HELP?](#)

Acid Number	10	Hydroxyl Number	14
Fraction Acid Reacted	0.9732	Fraction Hydroxyl Reacted	0.9636
Acid Equivalent Weight	NA	Hydroxyl Equivalent Weight	4085.0
Acid Functionality	0.84	Hydroxyl Functionality	1.16
Excess Acid Equivalents	NA	Excess Hydroxyl Equivalents	1.00
Patton Constant (K)	1.0050	R(OH/COOH)	1.0100
Number Average Molecular Weight, M_n	4728	Gelation (M_n) Occurs @ Acid Number	None
Weight Average Molecular Weight, M_w	NA	Gelation (M_w) Occurs @ Acid Number	NA

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FIGURE 3G

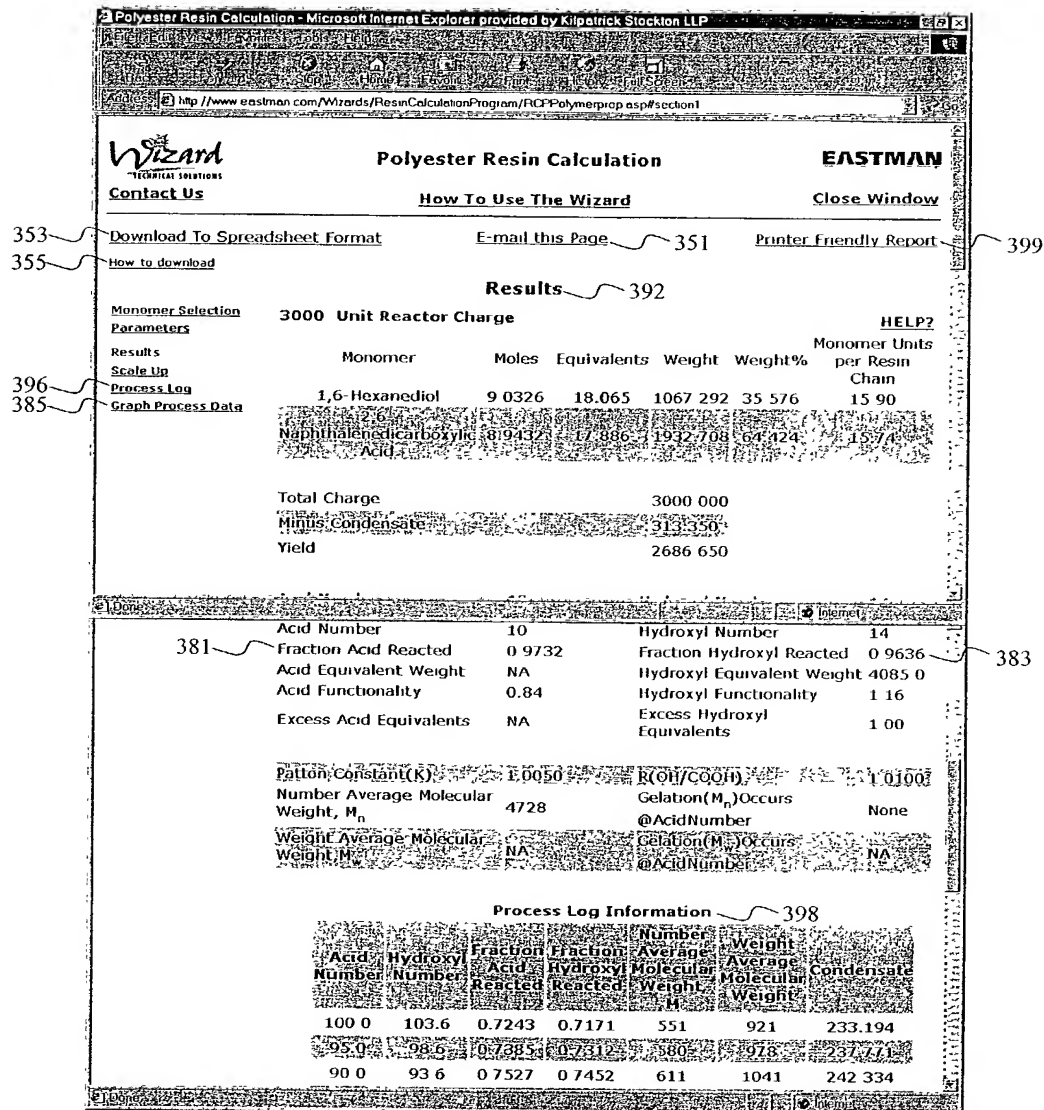


FIGURE 3H

Graph Process Data - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP

File Edit View Favorites Tools Help

Back Forward Stop Home Favorites Print History Full Screen

Address http://www.eastman.com/Wizards/ResinCalculationProgram/RCPGraphInfo.asp?Excess=True

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Polyester Resin Calculation

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Graph Process Data

Select Parameters to Graph

Monomer Selection
Parameters
Results
Scale Up
Process Log
Graph Process Data

HELP?

Enter Acid Number Range

100 0 5
Upper Lower StepSize

One X coordinate and two Y coordinates may be selected.

387

Parameters	X-Axis	Y-Axis
Acid Number	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydroxyl Number	<input type="checkbox"/>	<input type="checkbox"/>
Fraction Acid Reacted	<input type="checkbox"/>	<input type="checkbox"/>
Fraction Hydroxyl Reacted	<input type="checkbox"/>	<input type="checkbox"/>
Number Average MW	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Weight Average MW	<input type="checkbox"/>	<input type="checkbox"/>
Condensate	<input type="checkbox"/>	<input type="checkbox"/>

Create Graph

389

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Done Internet

FIGURE 3I

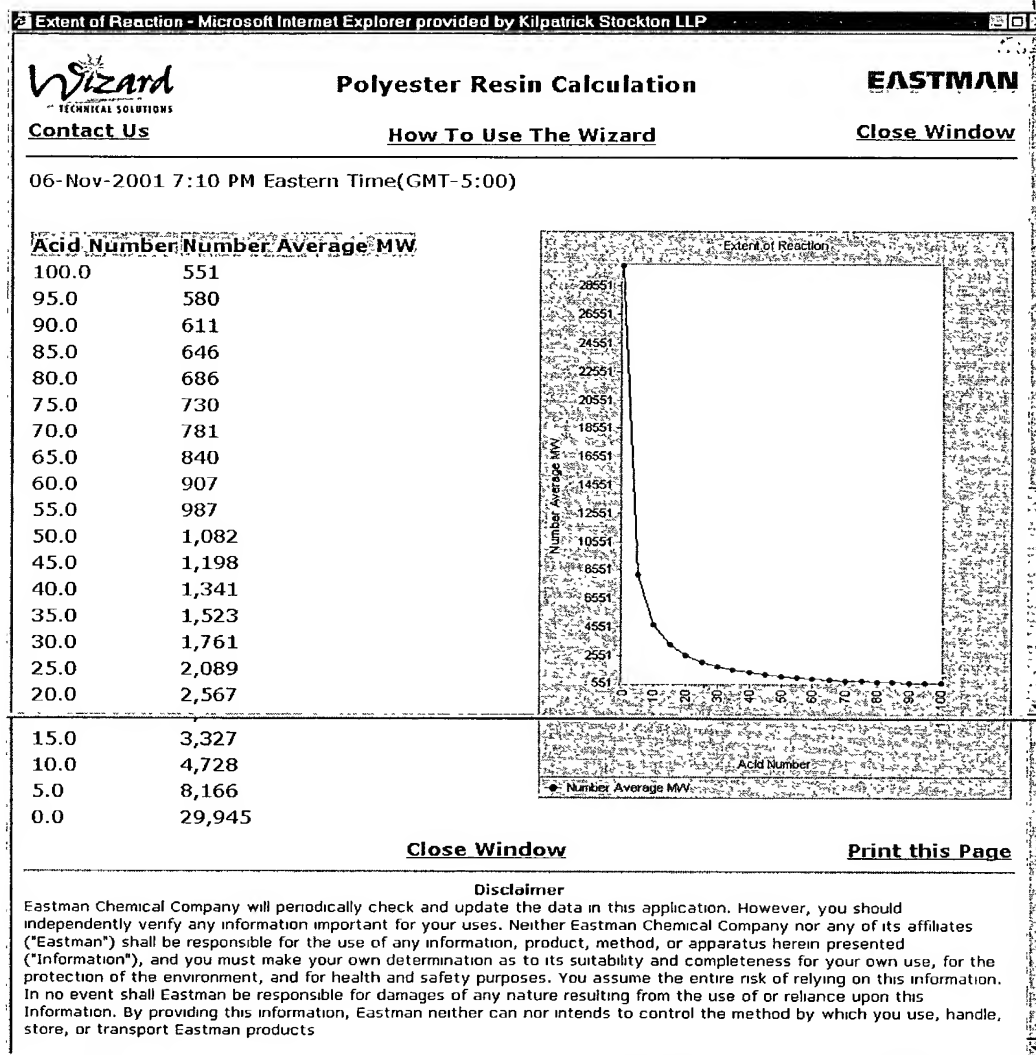


FIGURE 3J

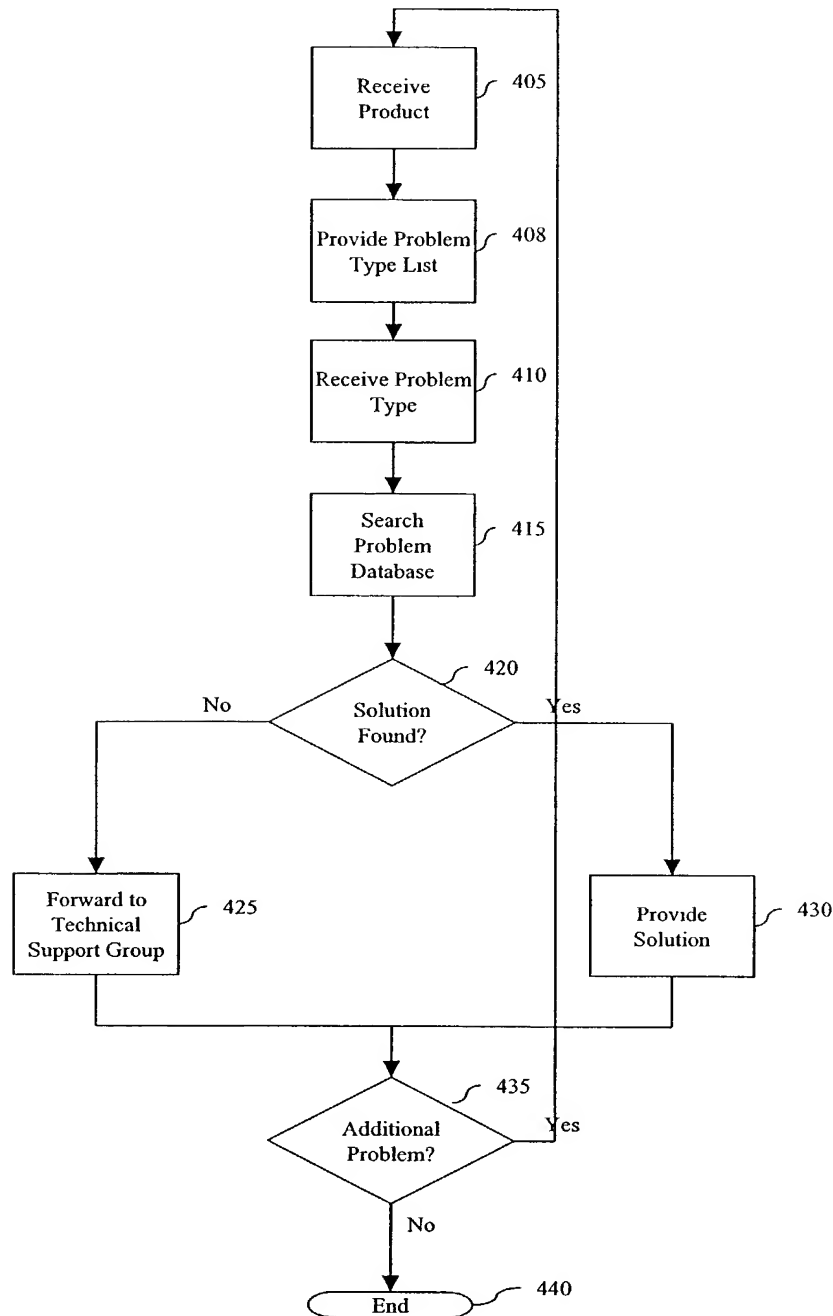


FIG. 4

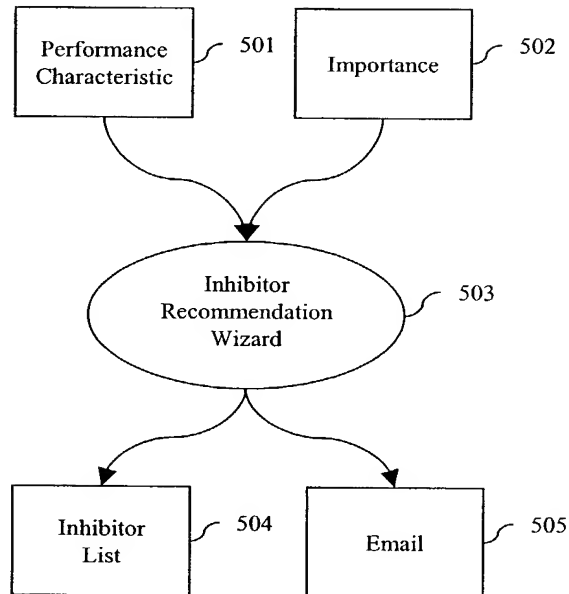
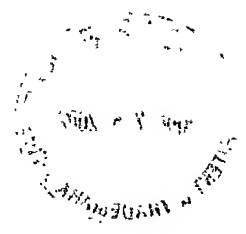


FIG. 5A

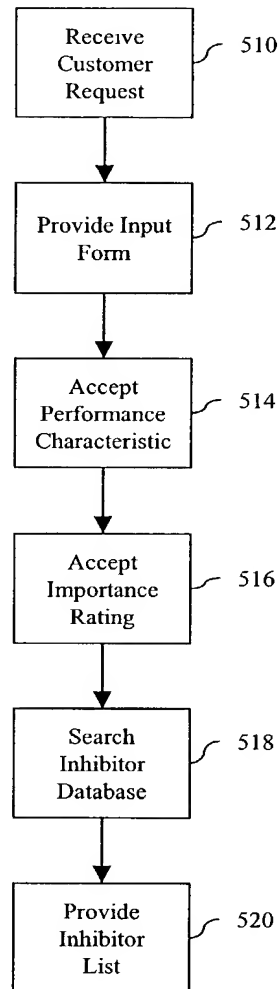
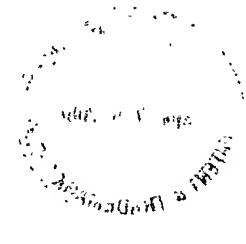


FIG. 5B



http://eastman/wizard2/inhibitor/inhibitor.asp - Microsoft Internet Explorer

Wizard
TECHNICAL SOLUTIONS

Inhibitor Recommendation **EASTMAN**

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Email this Page Print Friendly Version

Desired Performance Characteristics and Importance 551

Performance Characteristics	High	Medium	Low	None
Gel Time Extension	C	C	C	C
Storage Stability	C	C	C	C
Low Color	C	C	C	C
Active without Oxygen	C	C	C	C
Styrene Solubility	C	C	C	C
Glycol Solubility	C	C	C	C
Alcohol Solubility	C	C	C	C
Ketone Solubility	C	C	C	C
Low Cost	C	C	C	C

550

552

Recommended Inhibitors

Product	Rating
Product-1	100%
Product-2	90%
Product-3	70%

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FIG. 5C

http://eastman/wizard2/inhibitor/inhibitorPrint.asp?PrintLeadIn - Microsoft Internet Explorer

Wizard
TECHNICAL SOLUTIONS

Inhibitor Recommendation **EASTMAN**

Close Window Print this page

21 Dec-2000 17:49 Eastern Time (GMT-5:00)

Desired Performance Characteristics and Importance

Performance Characteristics	Importance
Gel Time Extension	None
Storage Stability	None
Low Color	None
Active without Oxygen	None
Styrene Solubility	None
Glycol Solubility	None
Alcohol Solubility	None
Ketone Solubility	None
Low Cost	None

554

556

Recommended Inhibitors

Product	Rating
Product-1	100%
Product-2	90%
Product-3	70%

Printer Friendly Version

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FIG. 5D

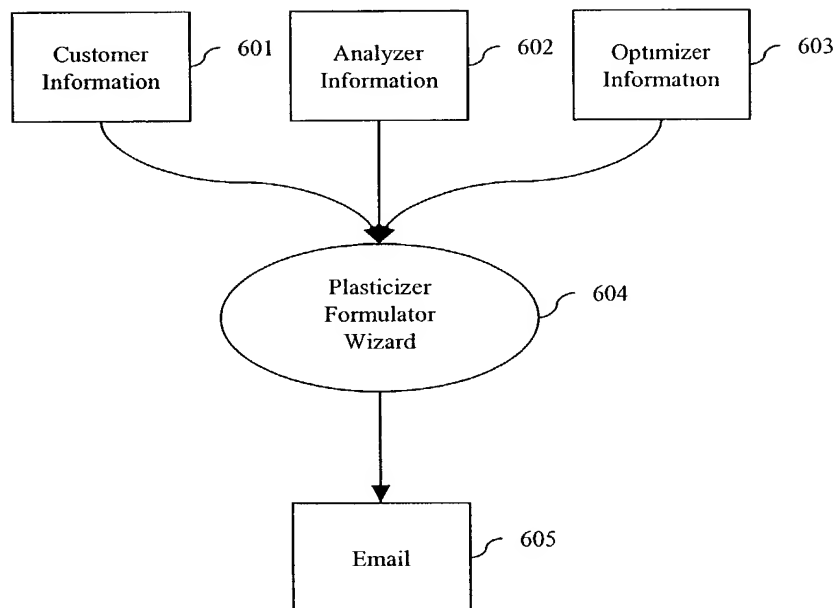


FIG. 6A

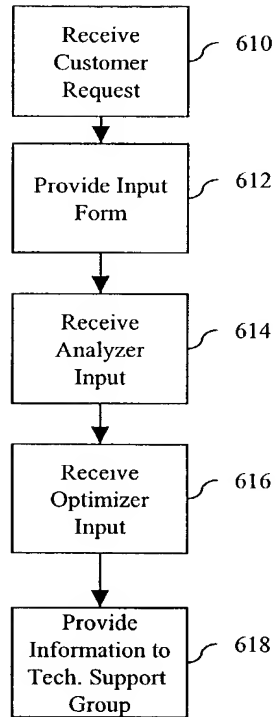
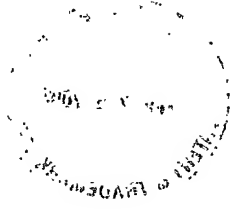
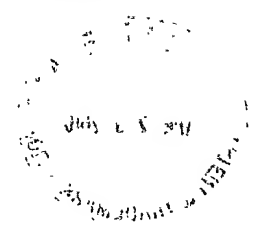


FIG. 6B



Plasticizer Formulator - Microsoft Internet Explorer

http://eastman/wizard/Plasticizer/PlasForm.asp

Wizard **Plasticizer Formulator** **EASTMAN**

[Contact Us](#) [How To Use The Wizard](#) [Close Window](#)

* = Required field

620 ANALYZER 621 622

Return To The Customer Information

Ingredients (Must include a minimum of one PVC Resin and one Plasticizer)	PHR (Parts per Hundred Resin) Required field to predict physical properties	US Dollar/Pound Required field to calculate formulation cost
PVC Resin 1		
PVC Resin 2		
Plasticizer 1		
Plasticizer 2		
Plasticizer 3		
Plasticizer 4		
Plasticizer 5		
Plasticizer 6		
Plasticizer 7		
Plasticizer 8		
Plasticizer 9		
Plasticizer 10		
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Plasticizer 94		
Plasticizer 95		
Plasticizer 96		
Plasticizer 97		
Plasticizer 98		
Plasticizer 99		
Plasticizer 100		

FIG. 6C

Plasticizer Formulator - Microsoft Internet Explorer

http://eastman/wizard/Plasticizer/PlasForm.asp

Wizard **Plasticizer Formulator** **EASTMAN**

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* = Required field

620 ANALYZER 621 622

Return To The Customer Information

Comments

Enter your comments for Analyzer

OPTIMIZER

Physical Property Selection *

SPECIFIC GRAVITY

DURROMETER HARDNESS A'S SEC

TENSILE STRENGTH PSI

Select at least one property for the formulation.

Hold down the CTRL key while selecting multiple properties.

Click here to enter property value

Physical Property 633 634

Ingredient Names (Must include a minimum of one PVC Resin and one Plasticizer)	Cost/Pound Required field to calculate formulation cost
PVC Resin 1	
PVC Resin 2	
Plasticizer 1	
Plasticizer 2	
Plasticizer 3	
Plasticizer 4	
Plasticizer 5	
Plasticizer 6	
Plasticizer 7	
Plasticizer 8	
Plasticizer 9	
Plasticizer 10	
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Plasticizer 97	
Plasticizer 98	
Plasticizer 99	
Plasticizer 100	

FIG. 6D

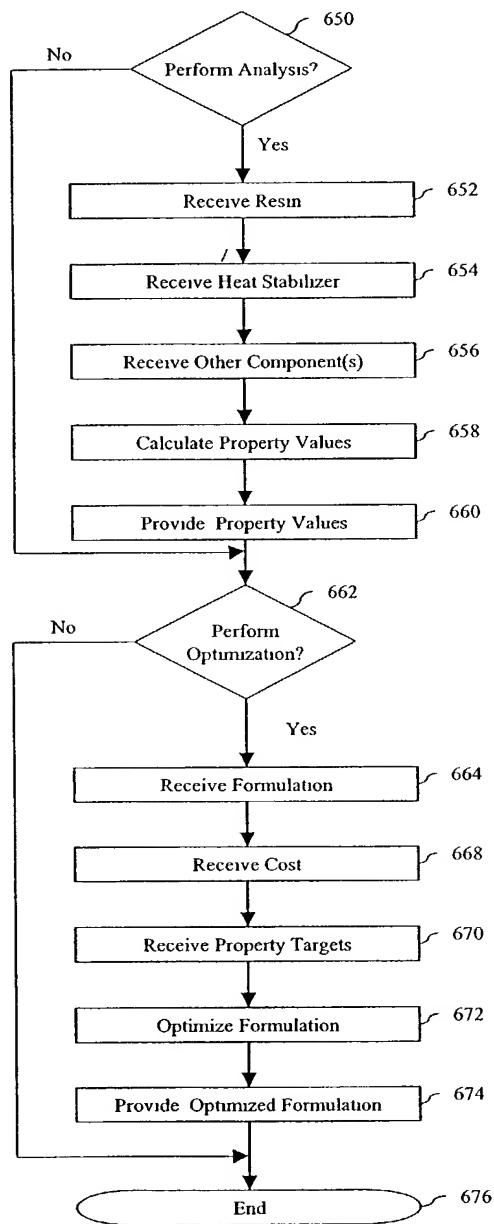
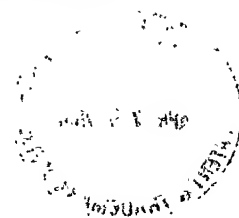
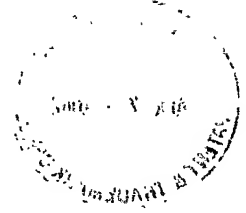


FIG. 6E



680

681

682

683

PHYSICAL PROPERTY SUMMARY	
COMPONENT	POUNDS
DURBY RESIN	100.00
EASTMAN DOP	40.00
BA 2M STABILIZER	2.00
EPOXY SOYBEAN OIL	2.00
TOTAL	144.00

PHYSICAL PROPERTY	ESTIMATED VALUE
SPECIFIC GRAVITY	1.270
DURONETER HARDNESS, 'A', 5 SEC	66
TENSILE STRENGTH, PSI	3127
ULTIMATE ELONGATION, %	343
MODULUS @ 100% ELONGATION, PSI	2001
TEAR STRENGTH, PPI	572
35K TORSION MODULUS, C	-9
135K TORSION MODULUS, C	-20
SOAPY H2O EXT. @ 50C, % WT LOSS	0.74
OIL EXTRACTION, % WT LOSS	4.6
HEXANE EXTRACTION, % WT LOSS	22
IMPACT BRITTLENESS D746, C	-26
ACTIVATED CARBON B90C, % WT LOSS	5.0

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FIG. 6F

684

685

686

COST AND DENSITY CALCULATION						
COMPONENT	POUNDS	\$/LB	DOLLARS	LBS/GAL	GALLONS	WTG*
DURBY RESIN	100.00	0.300	30.00	11.65	8.50	
EASTMAN DOP	40.00	0.400	16.00	8.20	4.00	10
BA 2M STABILIZER	2.00	1.300	2.60	0.49	0.24	
EPOXY SOYBEAN OIL	2.00	0.680	1.36	0.30	0.24	
TOTAL	144.00		49.96		13.94	

WEIGHT PER GALLON, LBS -	10.33
SPECIFIC GRAVITY -	1.24
CMES PER POUND -	34.69
DOLLARS PER GALLON -	3.504
DOLLARS PER CUBIC FOOT -	26.011

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FIG. 6G

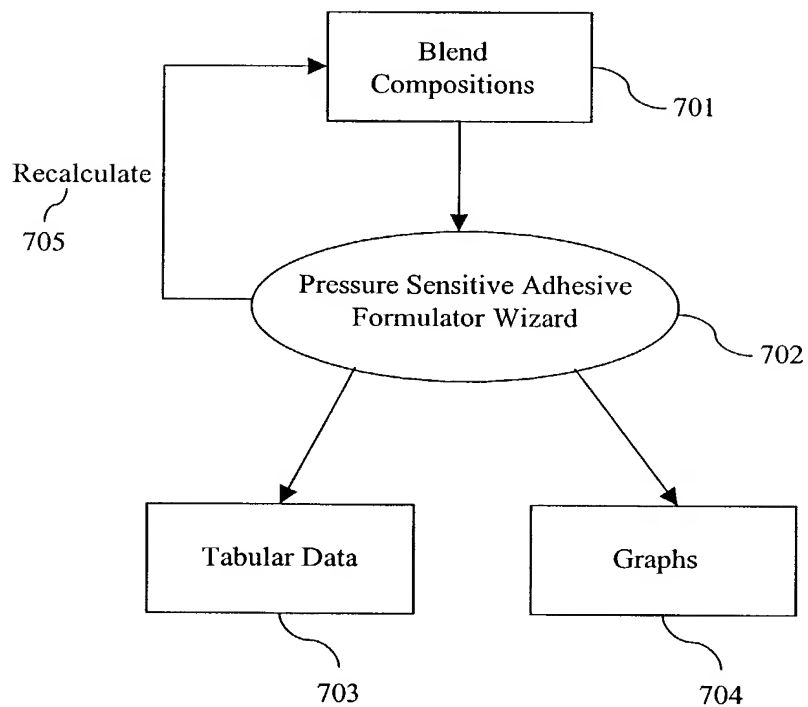


FIGURE 7A

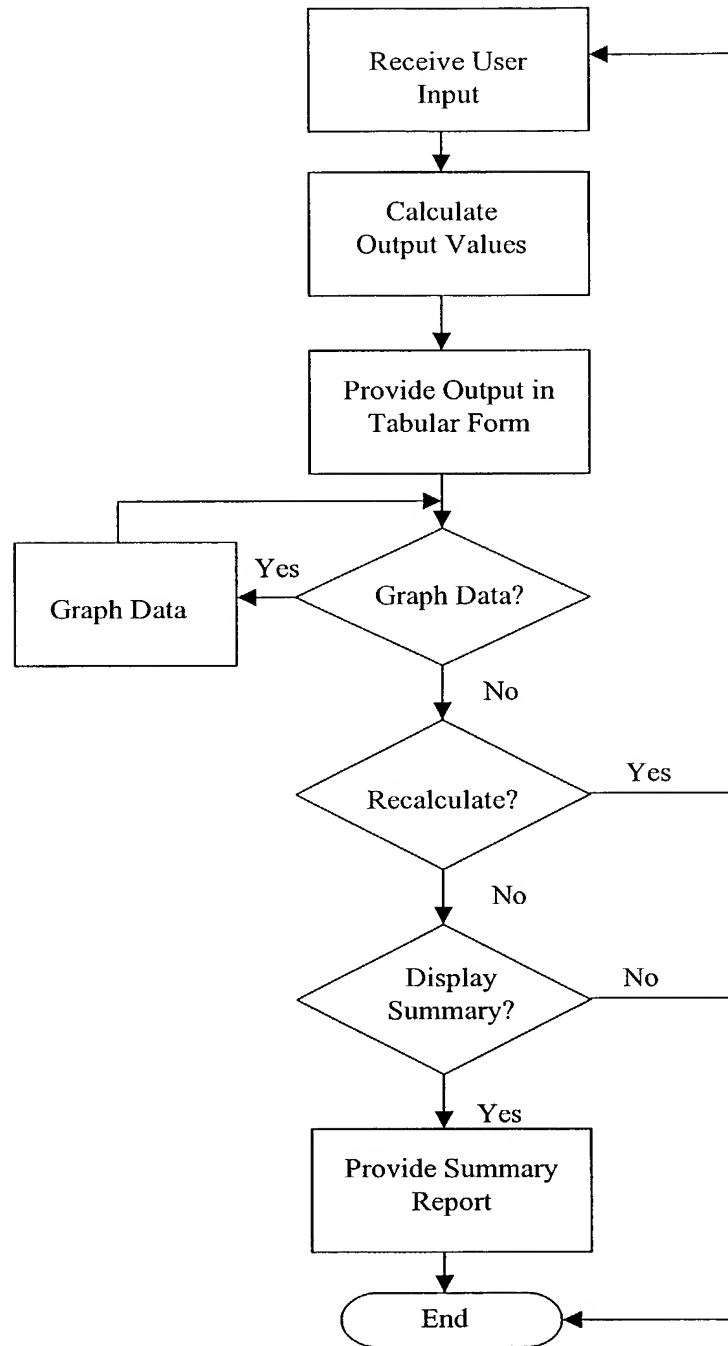


FIGURE 7B

10039482 . 042502

700

Adhesive Formulator - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP

http://www.eastman.com/Wizards/Adhesive/AdhesiveMan.asp

Wizard 791
TECHNICAL SOLUTIONS

Pressure Sensitive Adhesive Formulator
Incorporating
Eastotac Hydrocarbon Resin 712
How To Use The Wizard

EASTMAN 793

Contact Us 774 Close Window 736

* = Required Field
Click to View Test Methods

Blend Composition 724
NOTE: The formulation composition must total to 99.5%

722 726

Formulation 720

Eastotac H-100R * 722 Milled Natural Rubber * 724 Paraffin Oil * 726

772

732

Clear

Click to add Formulation Clear All added Formulations Click to View Properties

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731 733 735

FIGURE 7C

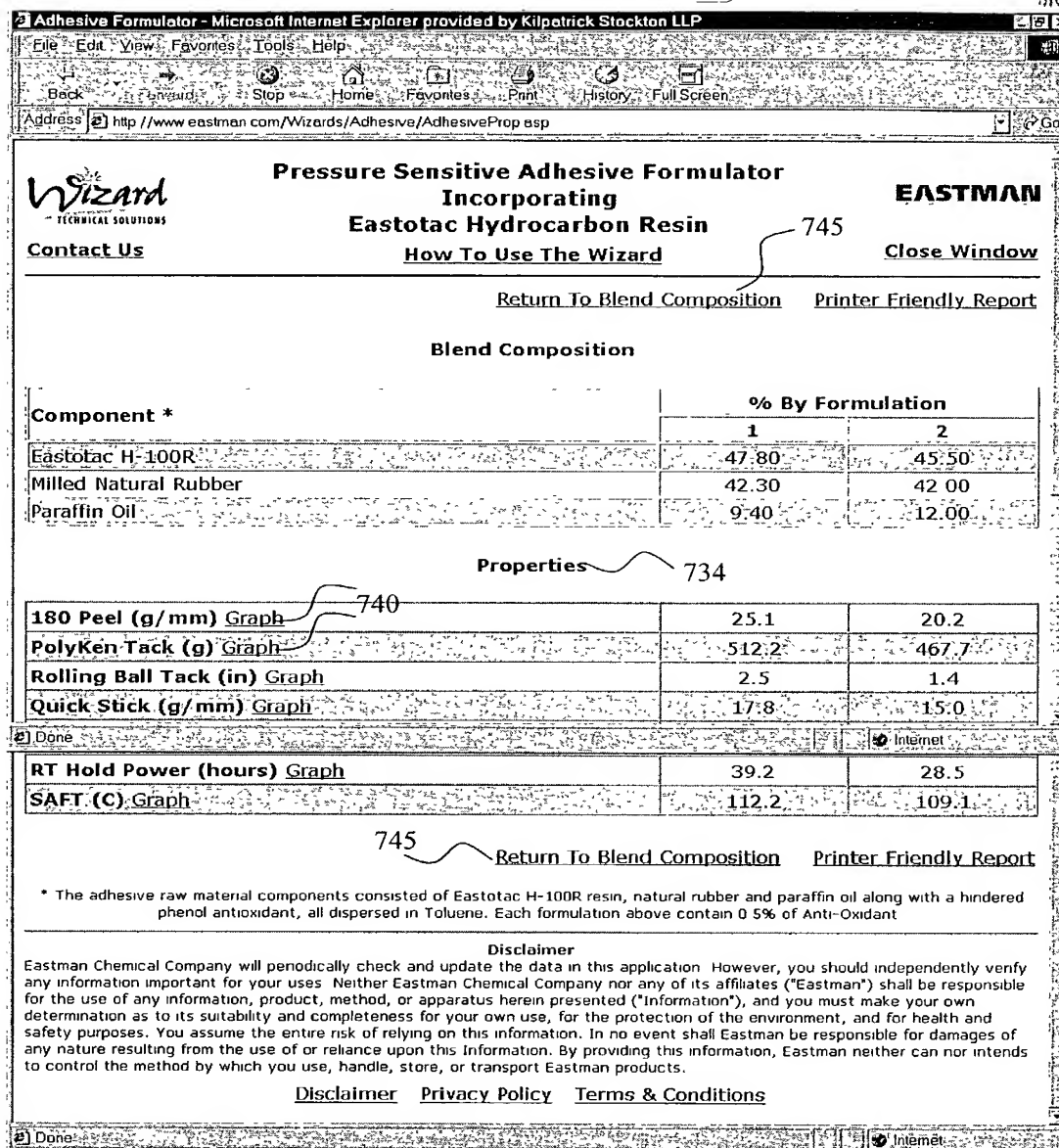


FIGURE 7D

Appln. Ser. No. 10/039,482
SOFTWARE ENABLED WIZARDS
Inventors: BASSETT et al.
Express Mail No. EV 032 196 431 US

10039482 .042502

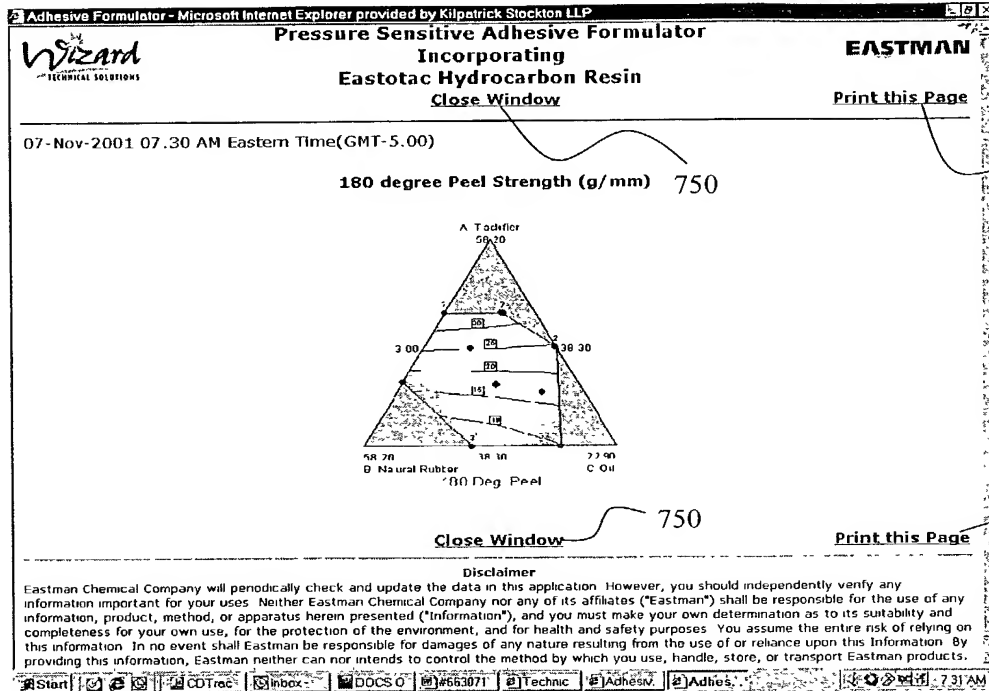


FIGURE 7E

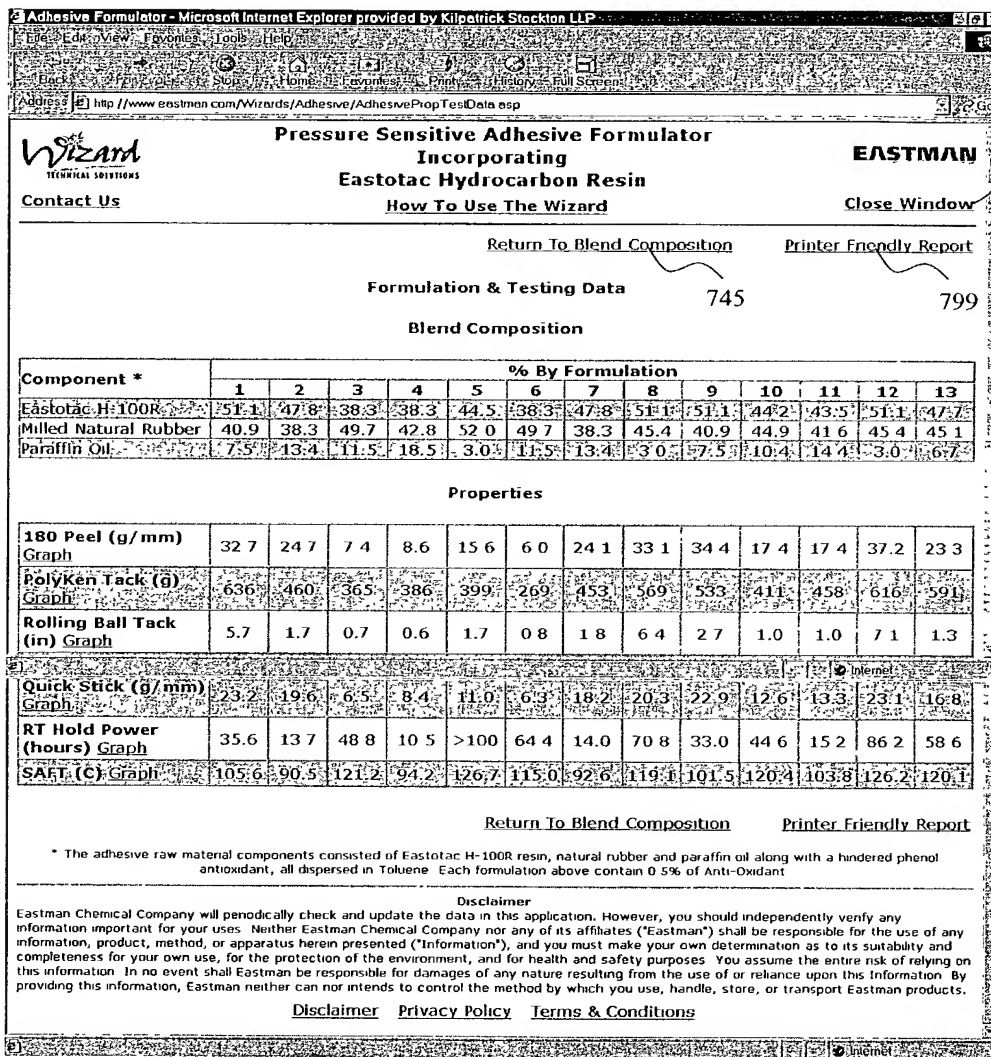
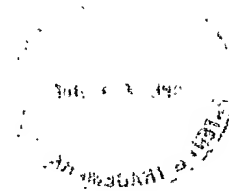


FIGURE 7F

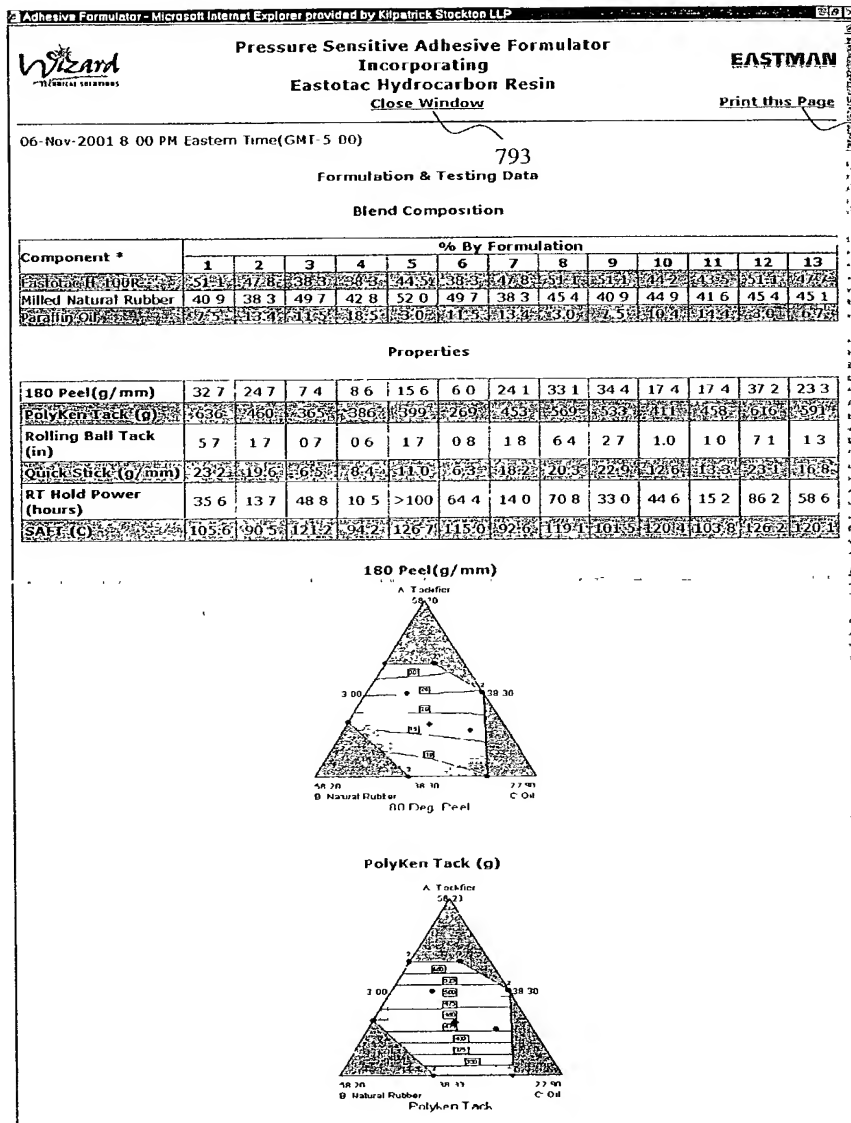
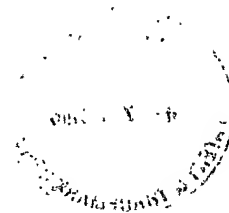


FIGURE 7G

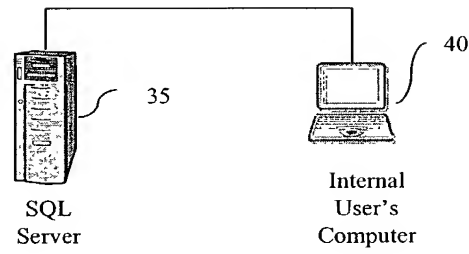
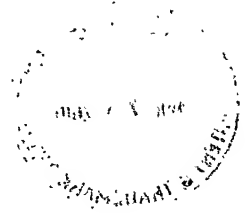


FIG. 8

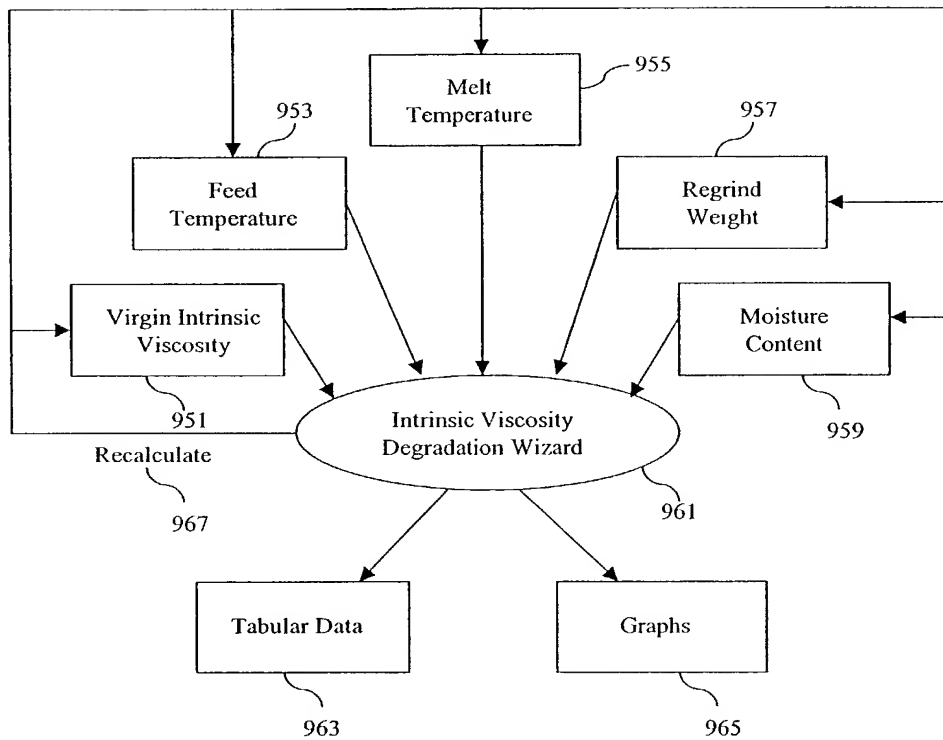


FIGURE 9A

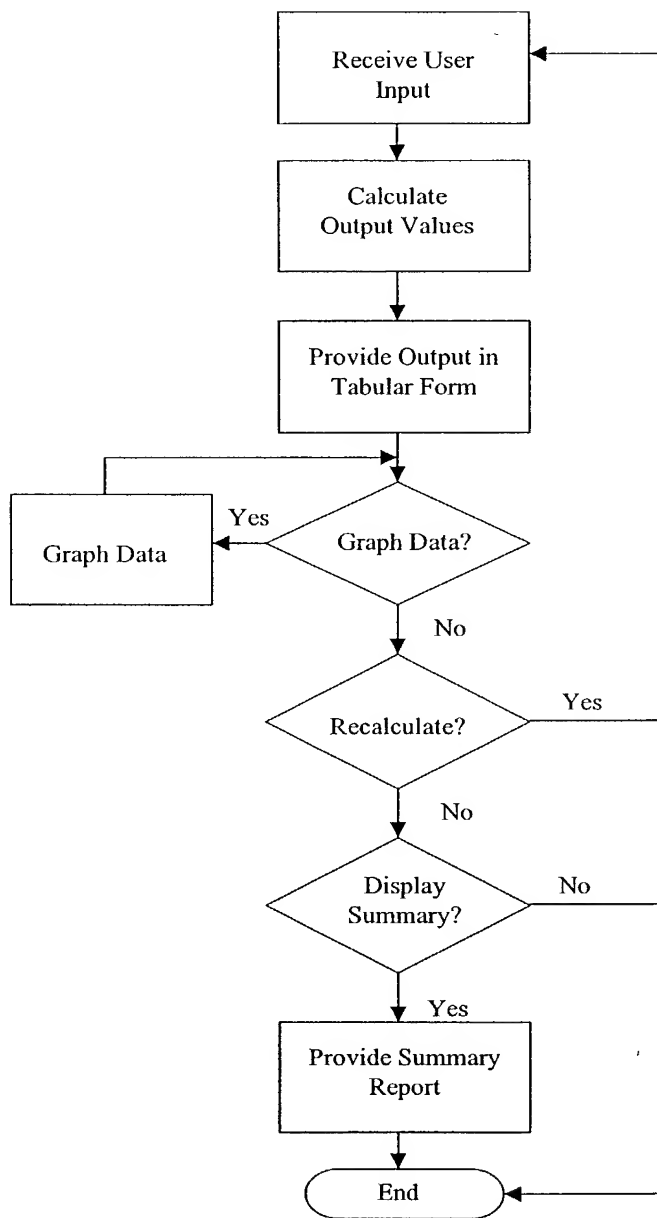


FIGURE 9B

Appln. Ser. No. 10/039,482
SOFTWARE ENABLED WIZARDS
Inventors: BASSETT et al.
Express Mail No. EV 032 196 431 US

10039482 . 042502

Intrinsic Viscosity Degradation Model For Eastapak PET - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP

http://www.eastman.com/Wizards/IVDegradation/IVDegradInputs.asp

Wizard Intrinsic Viscosity Degradation Model For Eastapak PET **EASTMAN**

Contact Us 991 How To Use The Wizard 990 Close Window 993

* = Required Field

Input Parameters: 901 902 903 904 905 906

Pellet Feed Temperature. * 100 990 °C

Melt Temperature. * 275 °C

Virgin Resin Moisture Content * 005 wt% 912

Regrind Ratio 5 wt% 999

Regrind Moisture * 007 wt% 990

Predicted Effect on Intrinsic Viscosity

Click the appropriate link to view the graph

a. Regrind Effect
b. Virgin Resin Intrinsic Viscosity Effect
c. Melt Temperature Effect
d. Feed Temperature Effect
e. Passes Graph
f. Regrind Moisture Effect
g. Virgin Resin Moisture Effect

Intrinsic Viscosity: 907A

Intrinsic Viscosity Before Pass 1: 0.000 dl/g

Click here for the Conversion Table 950

Passes Detail: 960

Passes	Intrinsic Viscosity
Pass 1	0.000
Pass 2	0.000
Pass 3	0.000
Pass 4	0.000
Pass 5	0.000
Pass 6	0.000
Pass 7	0.000
Pass 8	0.000

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931 933 935

FIGURE 9C

10039482 .042502

Appln. Ser. No. 10/039,482
SOFTWARE ENABLED WIZARDS
Inventors: BASSETT et al.
Express Mail No. EV 032 196 431 US

Intrinsic Viscosity Degradation Model For Eastapak PET - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP

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Address http://www.eastman.com/Wizards/IVDegradation/IVDegradInputs.asp

Wizard TECHNICAL SOLUTIONS **Intrinsic Viscosity Degradation Model For Eastapak PET** **EASTMAN**

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*=Required Field Printer Friendly Report

Input Parameters: **HELP?** **Predicted Effect on Intrinsic Viscosity**

Virgin Resin Intrinsic Viscosity: * 1 dl/g Click the appropriate link to view the graph **HELP?**

Pellet Feed Temperature: * 30 °C

Melt Temperature: * 275 °C

Virgin Resin Moisture Content: * 0.005 wt%

Regrind Ratio: * 5 wt%

Regrind Moisture * 0.007 wt%

900

920

921 a. Regrind Effect

922 b. Virgin Resin Intrinsic Viscosity Effect

923 c. Melt Temperature Effect

924 d. Feed Temperature Effect

925 e. Passes Graph

926 f. Regrind Moisture Effect

907B g. Virgin Resin Moisture Effect

950

999

Intrinsic Viscosity:

Intrinsic Viscosity before Pass 1 0.930 dl/g

Click here for the Conversion Table

Passes Detail:

Passes	Intrinsic Viscosity
Pass 1	0.926
Pass 2	0.926
Pass 3	0.926
Pass 4	0.926
Pass 5	0.926
Pass 6	0.926
Pass 7	0.926
Pass 8	0.926

999

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FIGURE 9D

10039482 . 042502

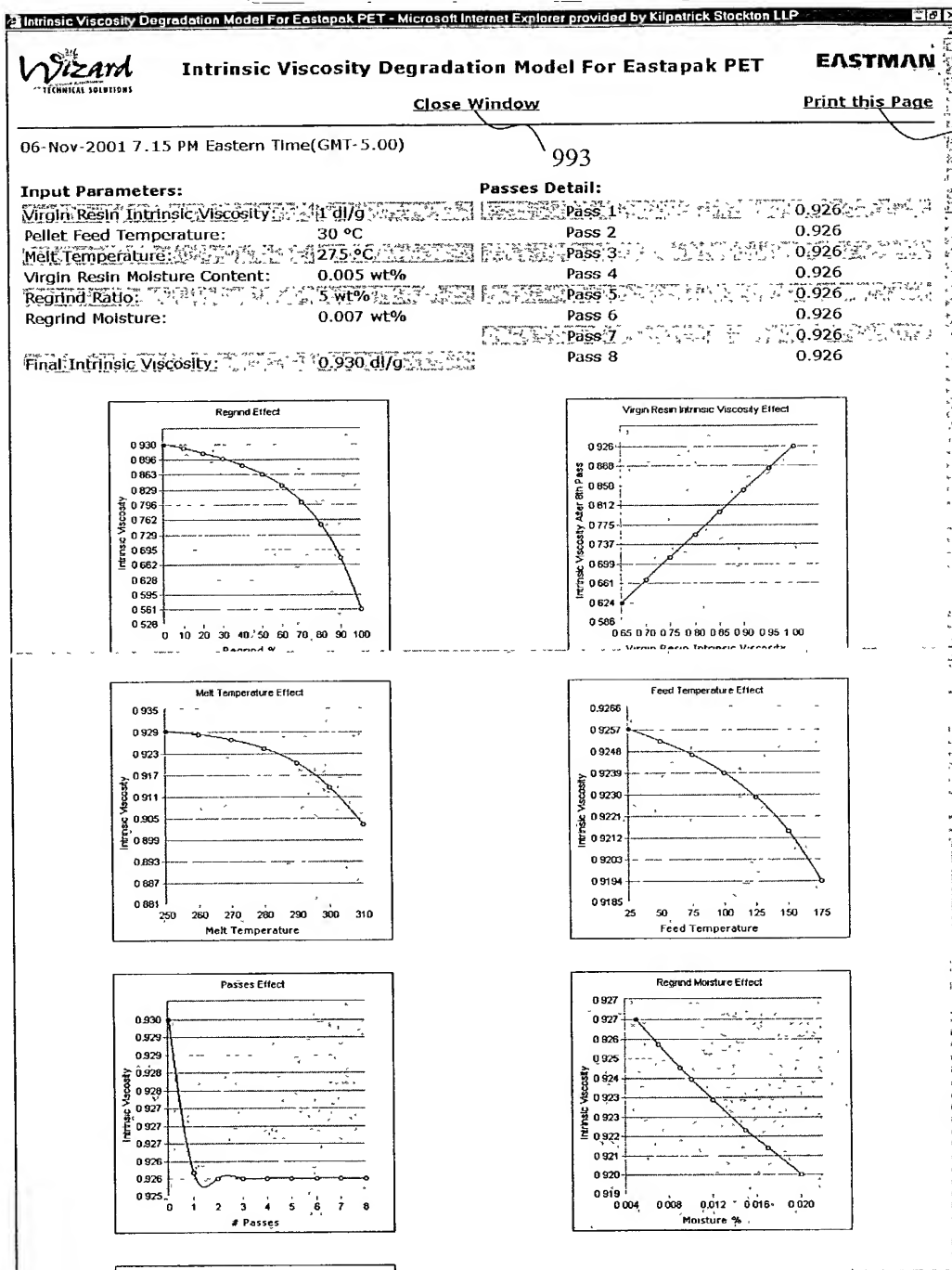


FIGURE 9E

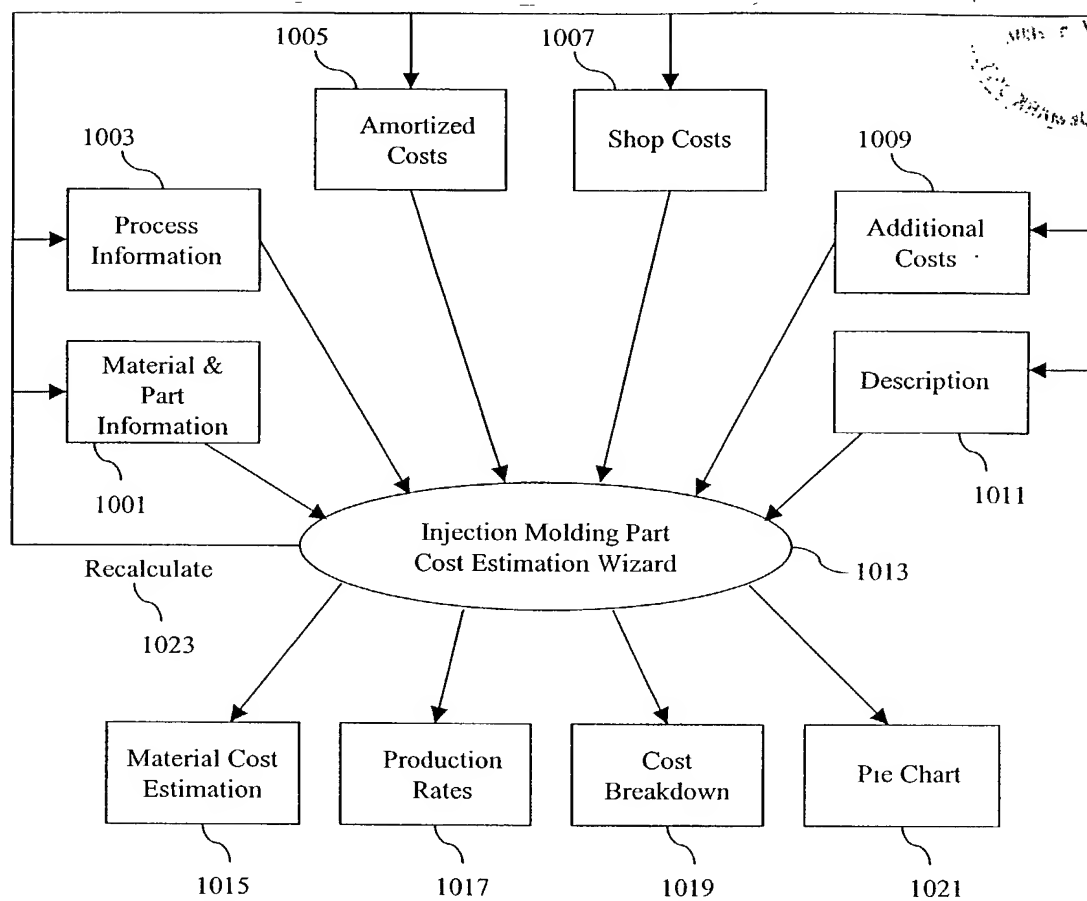


FIGURE 10A

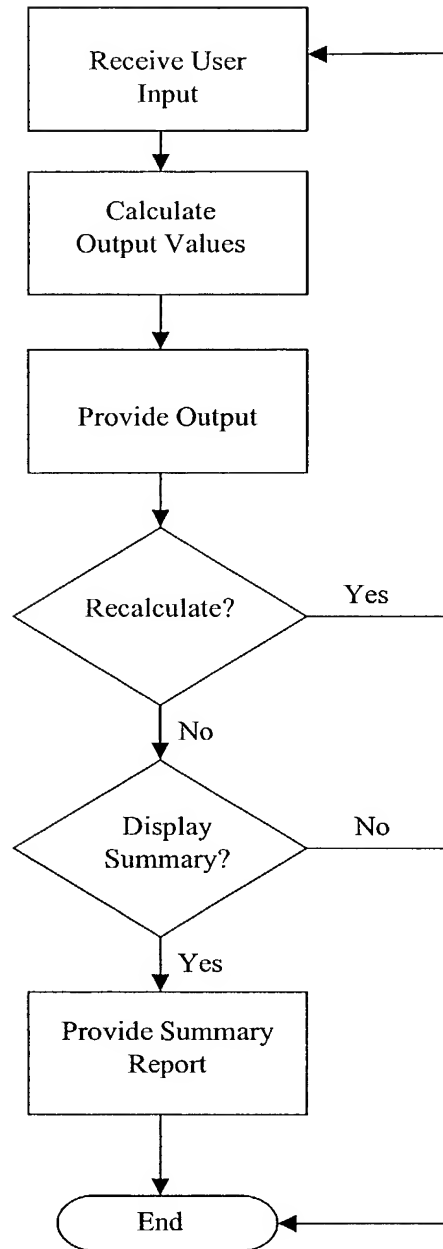
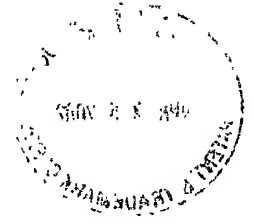


FIGURE 10B

Appln. Ser. No. 10/039,482
SOFTWARE ENABLED WIZARDS
Inventors: BASSETT et al.
Express Mail No. EV 032 196 431 US

10039482 042502

Injection Molding Part Cost Estimation - Microsoft Internet Explorer provided by Kiloatrick Stockton LLP

http://www.eastman.com/Wizards/PartCostEstimator/PartCostEstimator.asp

Injection Molding Part Cost Estimation **EASTMAN**

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* = Required Field

Input Values		Predicted Values	
Descriptions		Material Cost Estimations:	
Company	<input type="text"/>	Material Cost per Part	<input type="text"/>
Name of part.	<input type="text"/>	Virgin Material Use Rate	<input type="text"/>
Description.	<input type="text"/>	Material Cost per Acceptable Part	<input type="text"/>
Material	<input type="text"/>		
Preferred Currency	<input type="text"/>		

Material and Part Information		Production Rates:	
Part Mass *	<input type="text" value="100"/> grams (mass for 1 part only)	Gross Production Rate	<input type="text"/>
Runner Mass *	<input type="text" value="0"/> grams (enter 0 if hot runner system or if reground)	Rejected Parts: Acceptable Parts Prod Rate.	<input type="text"/>
Material Cost *	<input type="text" value="1"/> /kilogram	Annual Production Rate	<input type="text"/>

Process Information		Cost Breakdown:	
Number Of Cavities *	<input type="text" value="1"/>	Material	<input type="text"/>
Estimated Cycle Time *	<input type="text" value="30"/> Seconds	Operating (Press) Costs	<input type="text"/>
Reject Rate *	<input type="text" value="10"/> %	Amortized Costs	<input type="text"/>
% of Rejects Reground *	<input type="text" value="50"/> %	Additional Costs.	<input type="text"/>
		Total Part Cost	<input type="text"/>

Amortized Costs	
Equipment Costs *	<input type="text" value="0"/>
Equipment Amortization Time. *	<input type="text" value="10"/> Years
Mold Cost *	<input type="text" value="0"/>
Mold Amortization Time *	<input type="text" value="2"/> Years

Shop Costs	

Plastics Technology

(For U.S. only) [click here](#) to get the rate information

FIGURE 10C

Appl. Ser. No. 10/039,482
SOFTWARE ENABLED WIZARDS
Inventors: BASSETT et al.
Express Mail No. EV 032 196 431 US

10039482.042502

Injection Molding Part Cost Estimation - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP

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Address http://www.eastman.com/Wizards/PartCostEstimator/PartCostEstimator.asp

Plastics Technology

(For U.S. only) [click here](#) to get the rate information

Operating hours per week: * hours 1060

Project Down Time: * 1026

Machine Cost: * per hour 1028 1030

Additional Cost [HELP?](#)

Secondary Operations: * per part 1032

Overhead Expenses: * per part 1034

Miscellaneous Expenses: * per part 1036

1050

[Printer Friendly Report](#) 1099

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1031 1033 1035

FIGURE 10D

Appln. Ser. No. 10/039,482
SOFTWARE ENABLED WIZARDS
Inventors: BASSETT et al.
Express Mail No. EV 032 196 431 US

10039482.042502

Injection Molding Part Cost Estimation - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP

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Address http://www.eastman.com/Wizards/PartCostEstimator/PartCostEstimator.asp?FirstLoad=Yes&Curr=US&CalcType=ReCalc

Wizard
TECHNICAL SOLUTIONS

Injection Molding Part Cost Estimation

EASTMAN

Contact Us How To Use The Wizard Close Window

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Input Values

Descriptions **HELP?**

Company: ABC

Name of part: Name

Description: Description

Material: Plastic

Preferred Currency: US

Predicted Values

Material Cost Estimations: **HELP?**

Material Cost per 50.00 US per
Part: 1000 parts
Virgin Material Use 5.13 kilograms
Rate: per hour
Material Cost per 52.78 US per
Acceptable Part: 1000 parts

Material and Part Information: **HELP?**

Part
Mass: * 50 grams (mass for 1 part only)
Runner Mass: * 0 grams (enter 0 if hot runner system or if reground)

Production Rates: **HELP?**

Gross Production 108.00 parts per
Rate: hour
Rejected Parts: 10.80 parts per
hour

Material Cost: * 1 US/Kilogram

Recalculate

Process Information **HELP?**

Number Of Cavities: * 1

Estimated Cycle Time: * 30 Seconds

Reject Rate: * 10%

% of Rejects Reground: * 50%

Recalculate

Amortized Costs **HELP?**

Equipment Costs: * 100000 US

Equipment Amortization Time: * 10 Years

Mold Cost: * 10000 US

Mold Amortization Time: * 2 Years

Acceptable Parts 97.20 parts per
Prod. Rate: hour
Annual Production 202,731.43 parts
Rate: per year

Cost Breakdown: **HELP?**

Material: 52.78 US per
1000 parts
Operating (Press) 514.40 US per
Costs: 1000 parts
Amortized Costs: 73.99 US per
1000 parts
Additional Costs: 110.00 US per
1000 parts
Total Part Cost: 751.17 US per
1000 parts

FIGURE 10E

Injection Molding Part Cost Estimation - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP

Wizard TECHNICAL SOLUTIONS **Injection Molding Part Cost Estimation** **EASTMAN**

Close Window 1093 Print this Page 1040

06-Nov-2001 7:28 PM Eastern Time(GMT-5:00)

Input Values

Descriptions
Company: ABC
Name of part:
Description: Description
Material: Plastic
Preferred Currency: US

Material and Part Information
Part Mass: 50 grams
Runner Mass: 0 grams
Material Cost: 1 US per kilogram

Process Information
Number Of Cavities: 1
Estimated Cycle Time: 30 Seconds
Reject Rate: 10 %
% of Rejects Reground: 50 %

Amortized Costs
Equipment Costs: 100000 US
Equipment Amortization Time: 10 Years
Mold Cost: 10000 US
Mold Amortization Time: 2 Years

Shop Costs
Operating hours per week: 40
Project Down Time: 10 %
Machine Cost: 50 US per hour

Additional Cost
Secondary Operations: 2 US per part
Overhead Expenses: 4 US per part
Miscellaneous Expenses: 5 US per part

Predicted Values

Material Cost Estimations:
Material Cost per Part: 50.00 US per 1000 parts
Virgin Material Use Rate: 5.13 kilograms per hour
Material Cost per Acceptable Part: 52.78 US per 1000 parts

Production Rates:
Gross Production Rate: 108.00 parts per hour
Rejected Parts: 10.80 parts per hour
Acceptable Parts Prod Rate: 97.20 parts per hour
Annual Production Rate: 202,731.43 per 1000 parts

Cost Breakdown:
Material: 52.78 US per 1000 parts
Operating (Press) Costs: 514.40 US per 1000 parts
Amortized Costs: 73.99 US per 1000 parts
Additional Costs: 110.00 US per 1000 parts
Total Part Cost: 751.17 US per 1000 parts

Total Cost Predicted

Material Cost - 7.0264%
Operating Cost - 68.4788%
Amortized Cost - 9.6500%
Additional Cost - 14.8438%

1093 Close Window 1040 Print this Page

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FIGURE 10F

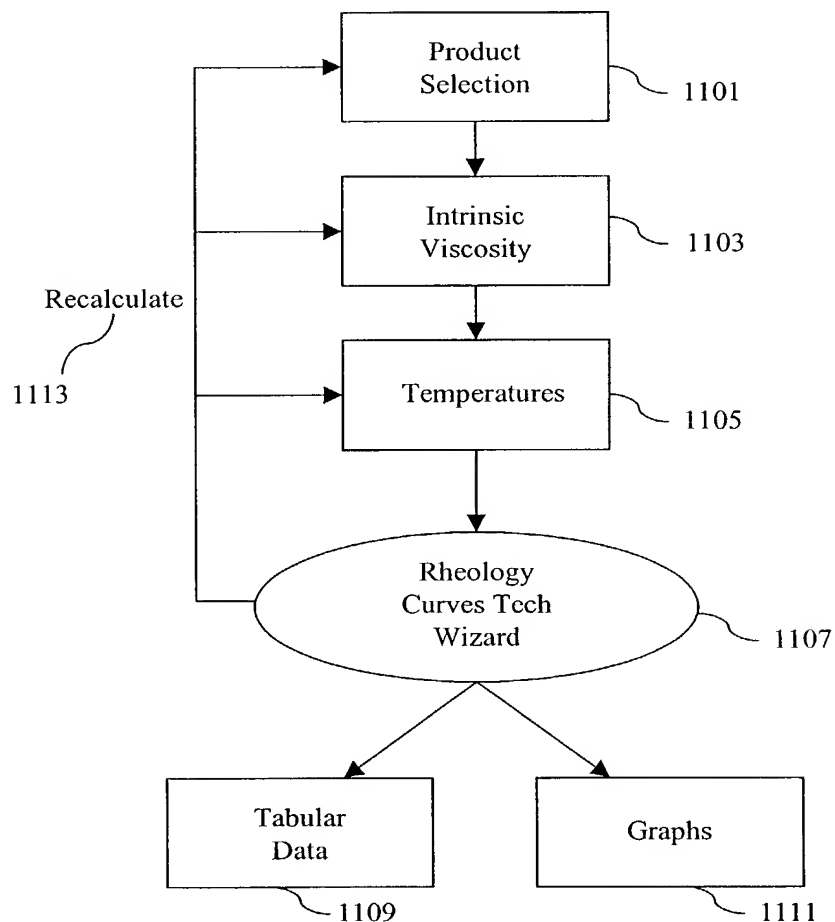


FIGURE 11A

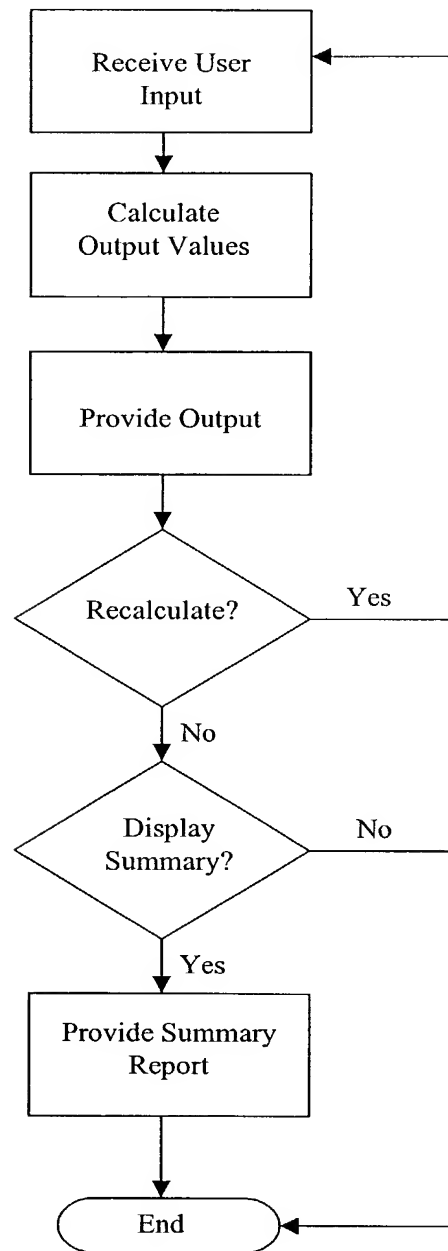


FIGURE 11B

10039492 042502

Appln. Ser. No. 10/039,482
SOFTWARE ENABLED WIZARDS
Inventors: BASSETT et al.
Express Mail No. EV 032 196 431 US

Rheology Curves and Data 1100

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Product Group: * 1102

Product: * 1104

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Done Internet

1131 1133 1135

FIGURE 11C

Appln. Ser. No. 10/039,482
SOFTWARE ENABLED WIZARDS
Inventors: BASSETT et al.
Express Mail No. EV 032 196 431 US

10039482 . 042502

Rheology Curves and Data - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP

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Address http://www.eastman.com/Wizards/RheologyCurves/Rheology.asp

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Rheology Curves and Data

EASTMAN

Contact Us How To Use The Wizard Close Window

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Product Group: EASTAPAK PET Product: EASTAPAK AQUA Polymer 18696

1160 Click Here to view the Product Information, MSDS, etc.

1140

Input Parameters **HELP?** **Shear Rate and Viscosity** **HELP?**

Intrinsic Viscosity (dl/g): * 0.71

Temperature 1 (°C): * 1142 285

Temperature 2 (°C): 1144 0

Temperature 3 (°C): 0

1120 Calculate 1146

Shear Rate (s ⁻¹ or r/s)	Viscosity (P) at Temperature
1	0.0
10	0.0
100	0.0
400	0.0
1000	0.0
4000	0.0
10000	0.0

1190

Done Internet

Met Viscosity of EASTAPAK PET

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Done Internet

FIGURE 11D

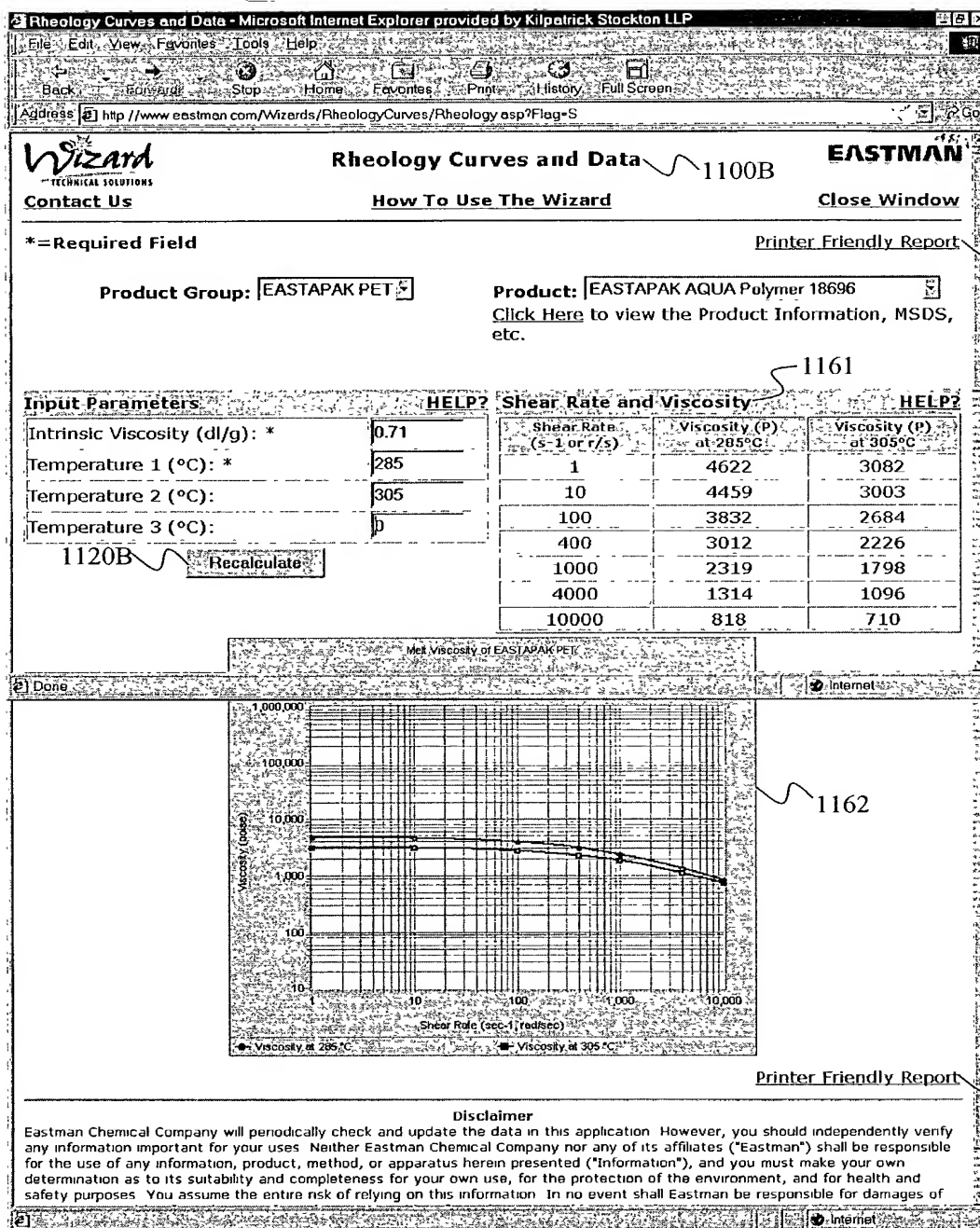


FIGURE 11E

Appln. Ser. No. 10/039,482
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 Express Mail No. EV 032 196 431 US

10039482 042502

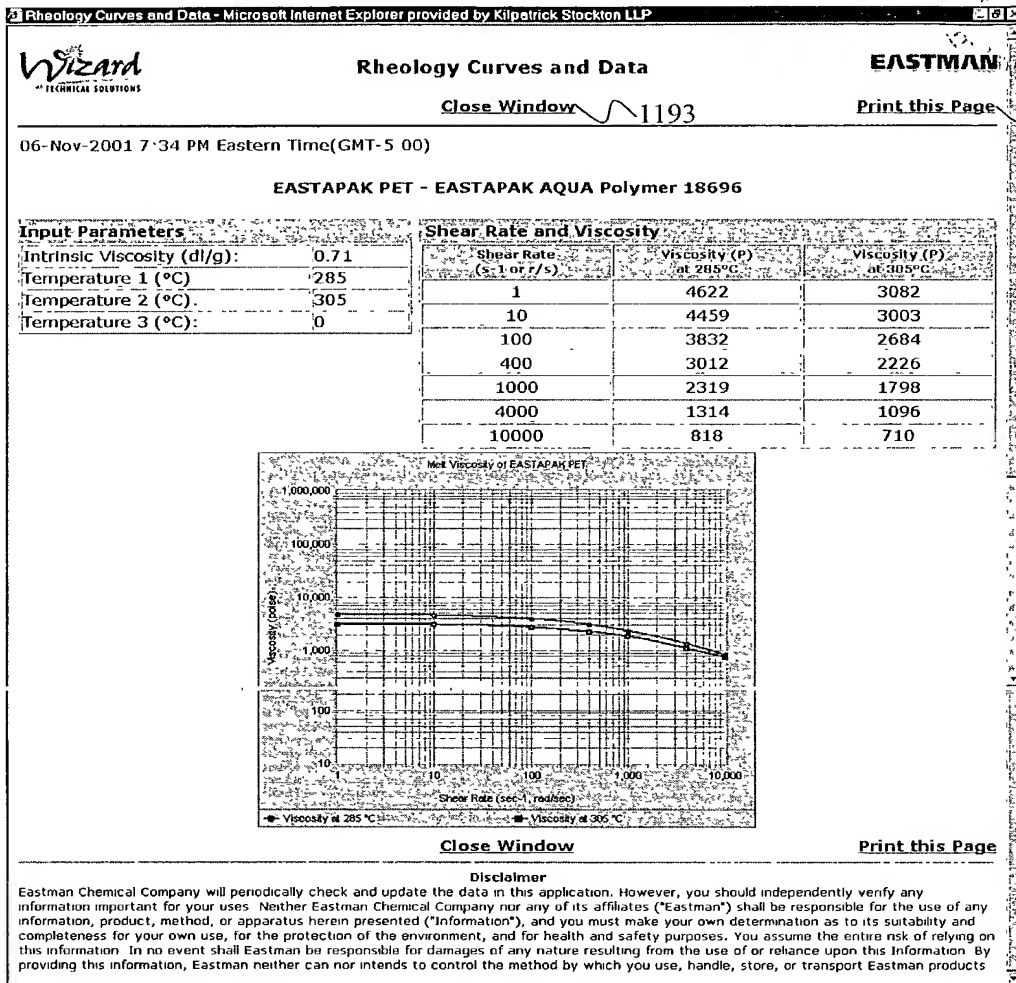


FIGURE 11F

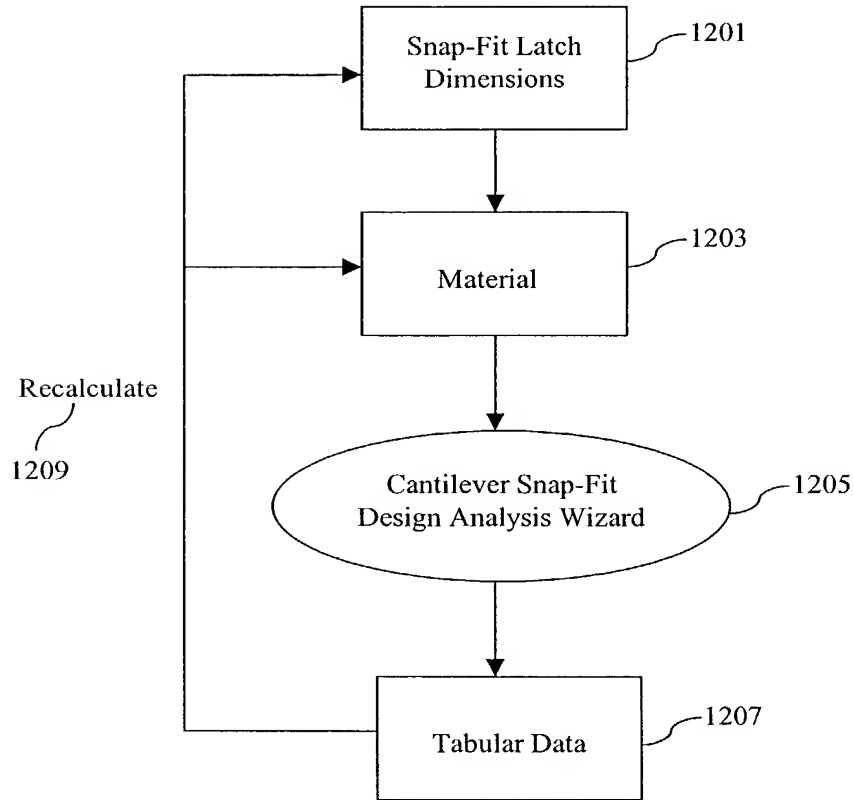
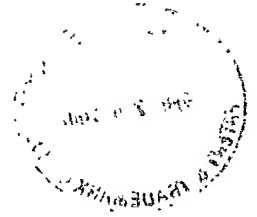


FIGURE 12A

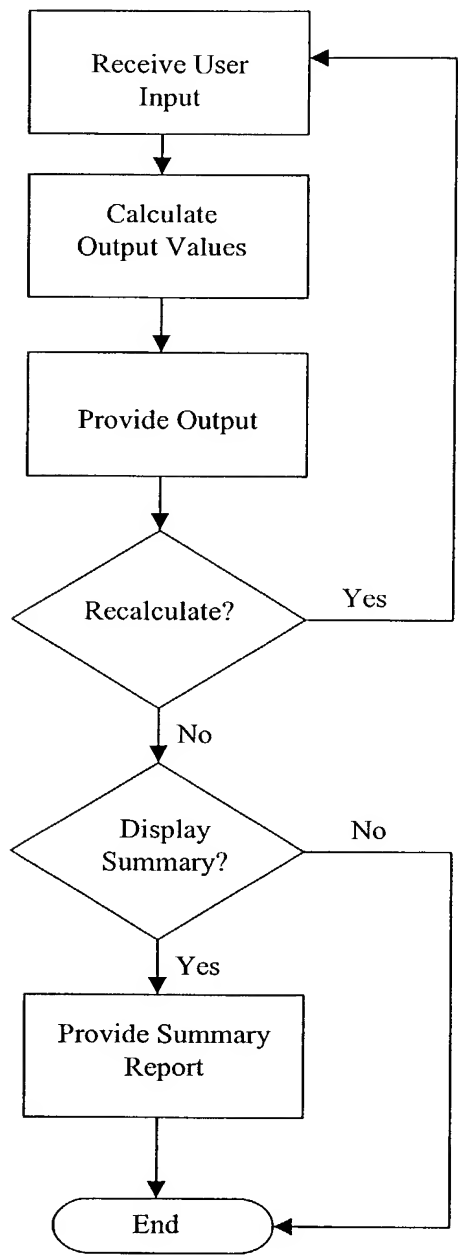


FIGURE 12B

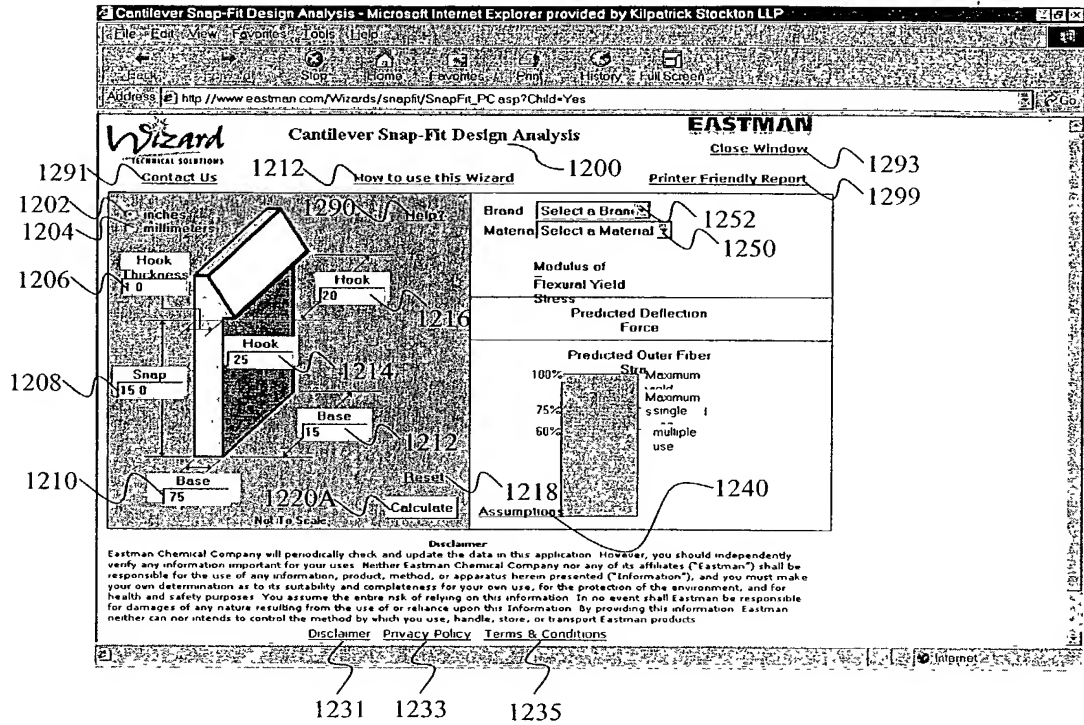


FIGURE 12C

Appln. Ser. No. 10/039,482
SOFTWARE ENABLED WIZARDS
Inventors: BASSETT et al.
Express Mail No. EV 032 196 431 US

10039482, 042502

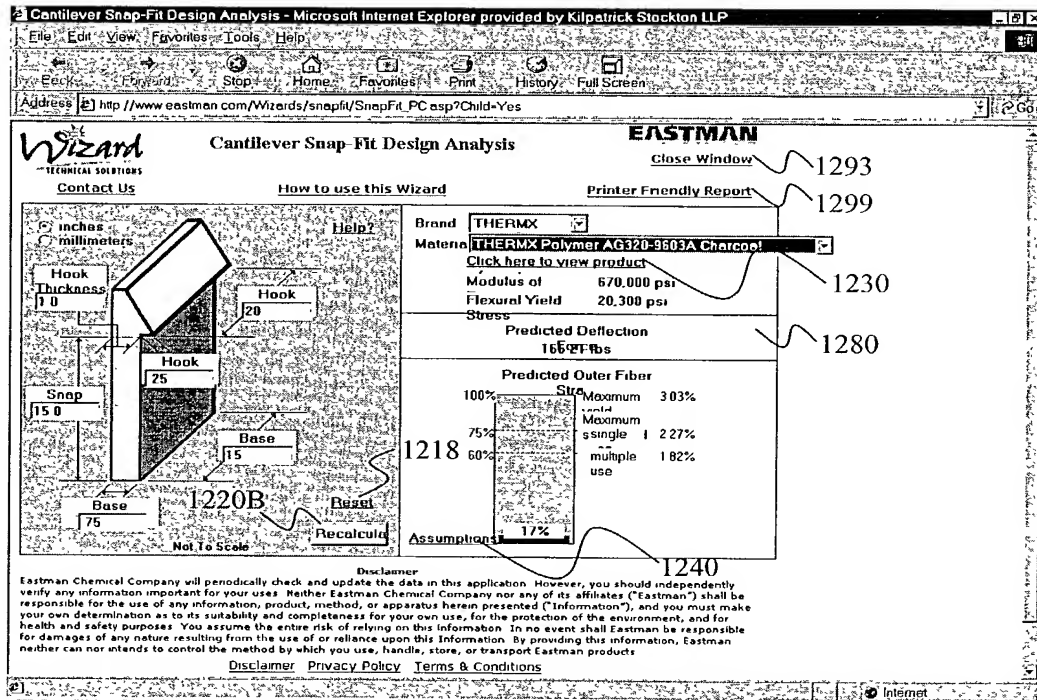


FIGURE 12D

Appln. Ser. No. 10/039,482
SOFTWARE ENABLED WIZARDS
Inventors: BASSETT et al.
Express Mail No. EV 032 196 431 US

10039482 . 042502

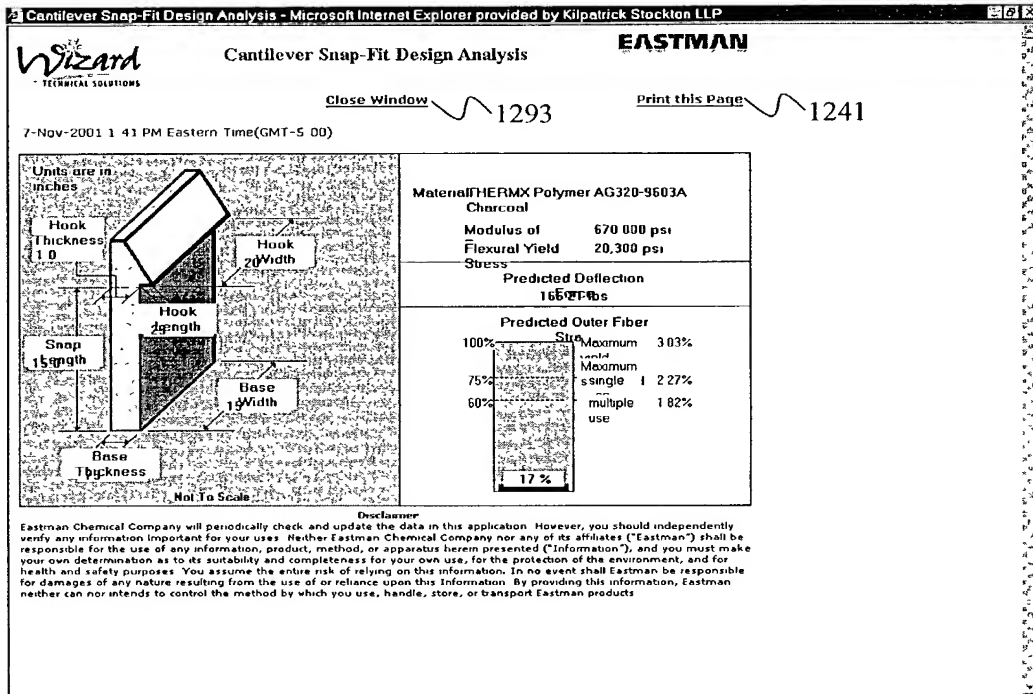


FIGURE 12E

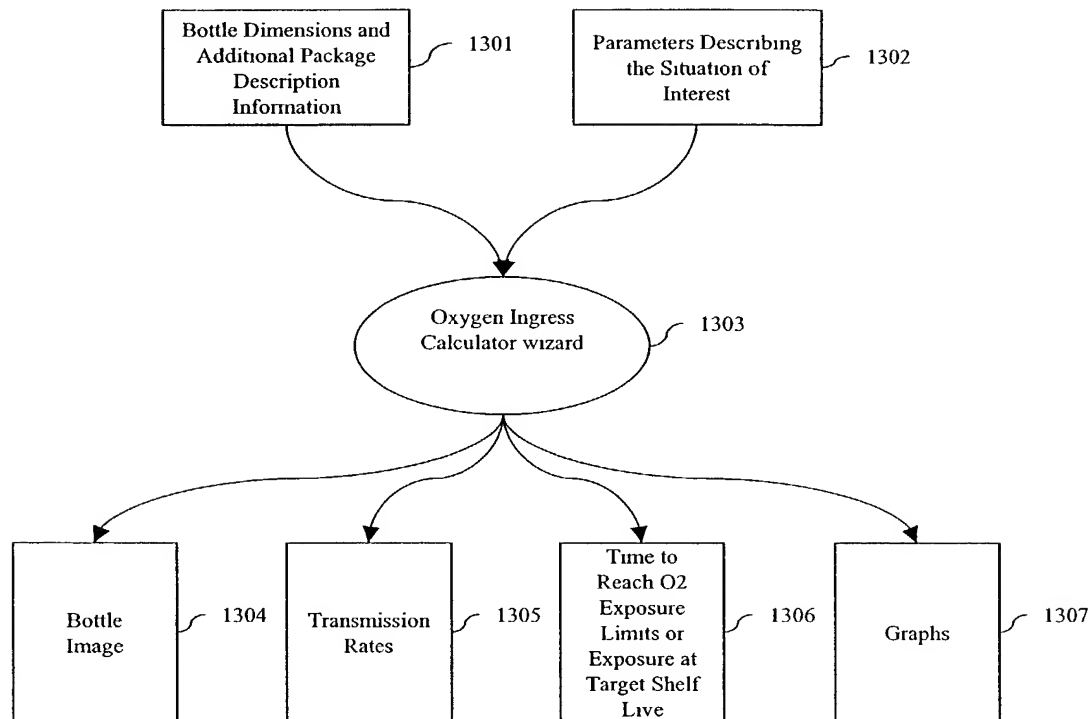


FIG. 13A

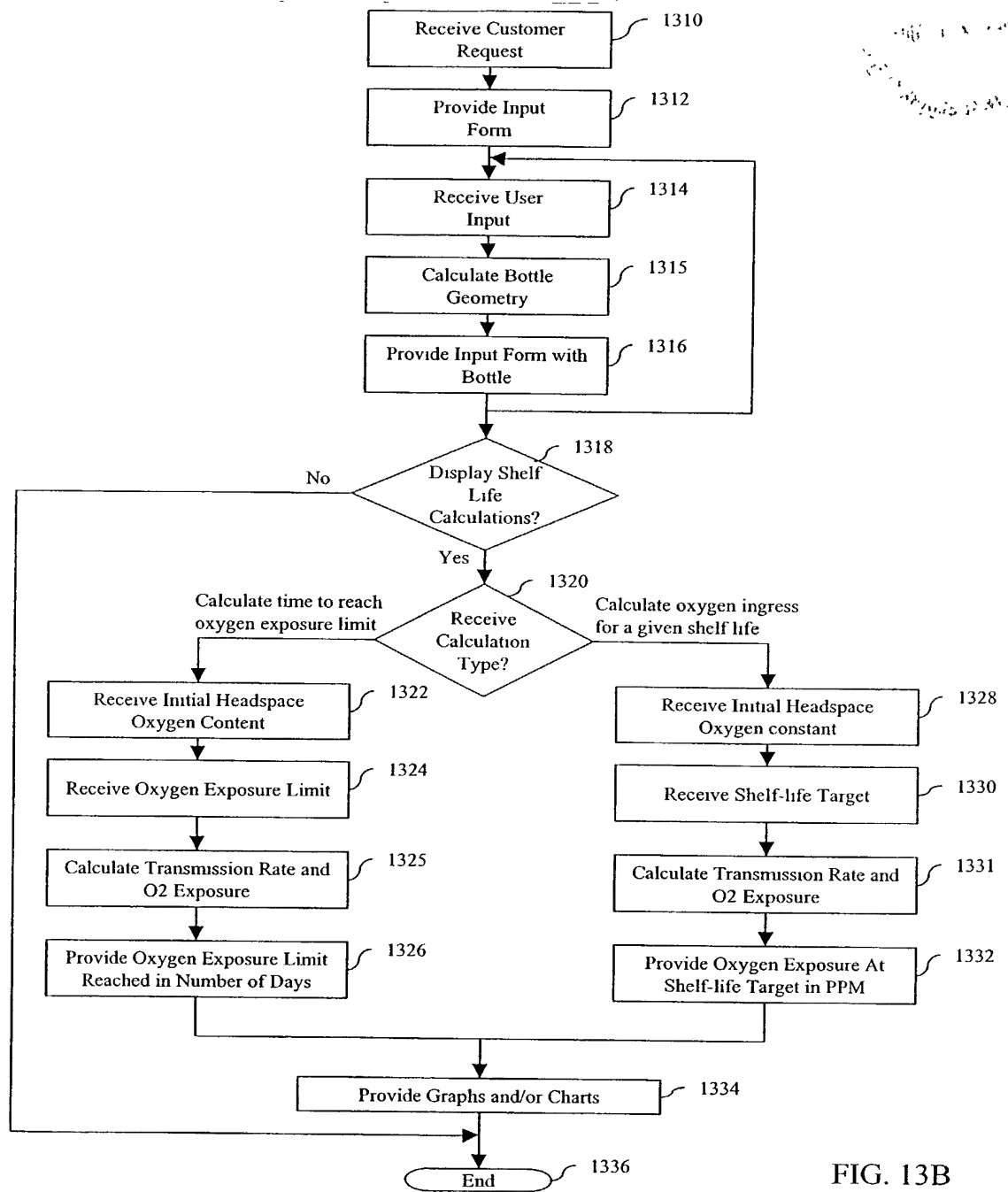
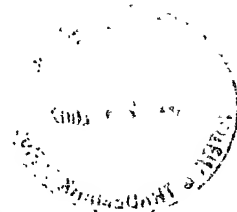


FIG. 13B



Wizard **Oxygen Ingress Calculator for PET Monolayer Containers** **EASTMAN**
 Contact Us How To Use The Wizard Close Window

*=Required Field

Container Specifications	
Container Volume: *	500 ml
Container Type *	Select Container Type
Headspace Volume:	ml
Container Weight: *	25.9 grams
Diameter *	69.5 mm
Sidewall Ht/Shoulder Ht: *	2
Finish Diameter: *	Select Finish Diameter
Closure Type: *	Select Closure Type

1356 Draw Bottle

Click [here](#) for Conversion Table

1354

Dsw=Diameter of Sidewall; Hb=Height of Base Hsw=Height of Sidewall, Hsh=Height of Shoulder

1357

Assumptions Click [here](#) for Shelf Life Calculations

FIG. 13C

1358

Select Option

Calculate Time To Reach Oxygen Exposure Limit	c
Calculate Oxygen Ingress For A Given Shelf Life	c

1360

Input Parameters

Initial Head Space Oxygen Content *	2 %
Oxygen Exposure Limit: *	15 ppm

1366 Recalculate

1362

Output Parameter

Oxygen Exposure Limit Reached	124.2 days
-------------------------------	------------

1364

1368

1370

FIG. 13D

10039482.042502

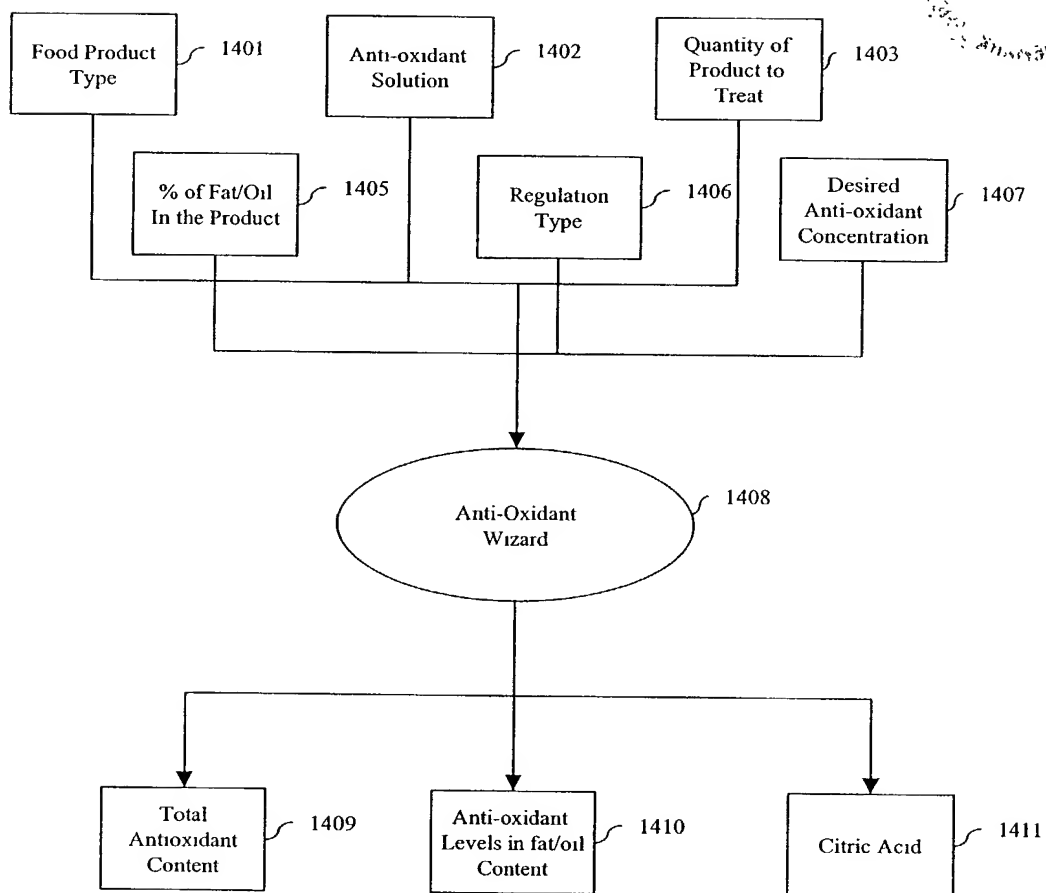


FIG. 14A

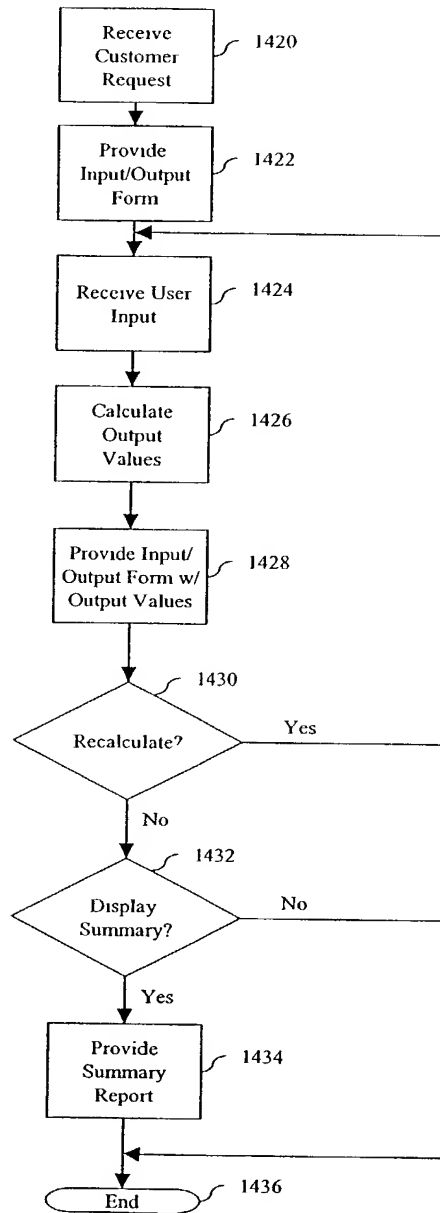
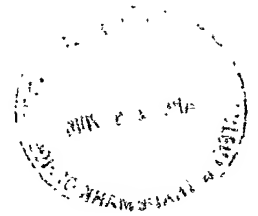


FIG. 14B

Appln. Ser. No. 10/039,482
SOFTWARE ENABLED WIZARDS
Inventors: BASSETT et al.
Express Mail No. EV 032 196 431 US

10039482.042502



Antioxidant Calculator - Microsoft Internet Explorer

Address: http://eastmen/Wizards/Prototype/AntiOxidant/AntiOxiMain.asp

Wizard
TECHNICAL SOLUTIONS

Antioxidant Calculator

EASTMAN

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*=Required Field

Click here to see a listing of [Recommended Tenox Products](#) for various Applications

Input Parameters	HELP?
Food Product *	
Tenox Product to be used: *	Select One
Quantity of Food Product to treat *	1000
Weight units *	Select One
Fat/oil percentage in food product *	100 %
Regulation to be used: *	FDA
Total Antioxidant Concentration desired *	ppm
Do you wish to convert the Antioxidant weight to volume. *	<input type="radio"/> Yes <input type="radio"/> No

Antioxidant levels in fat/oil content

BHA

BHT

IBHQ

Propyl Gallate

Total Antioxidant Level

Citric Acid

Amount of Tenox 6 to apply

Done

Local intranet zone

FIG. 14C

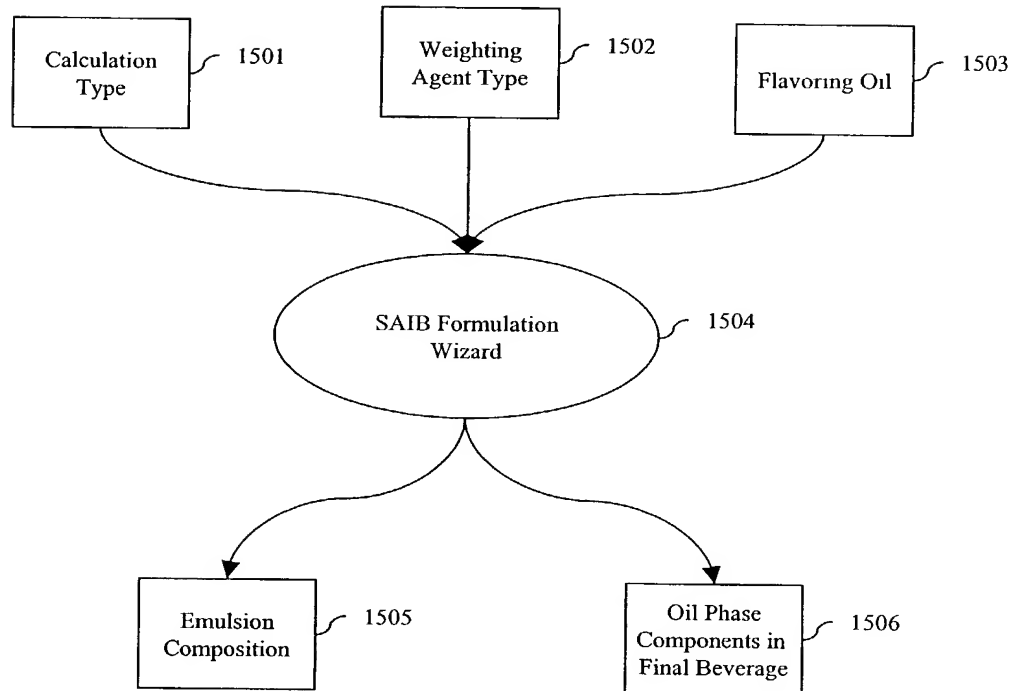


FIG. 15A

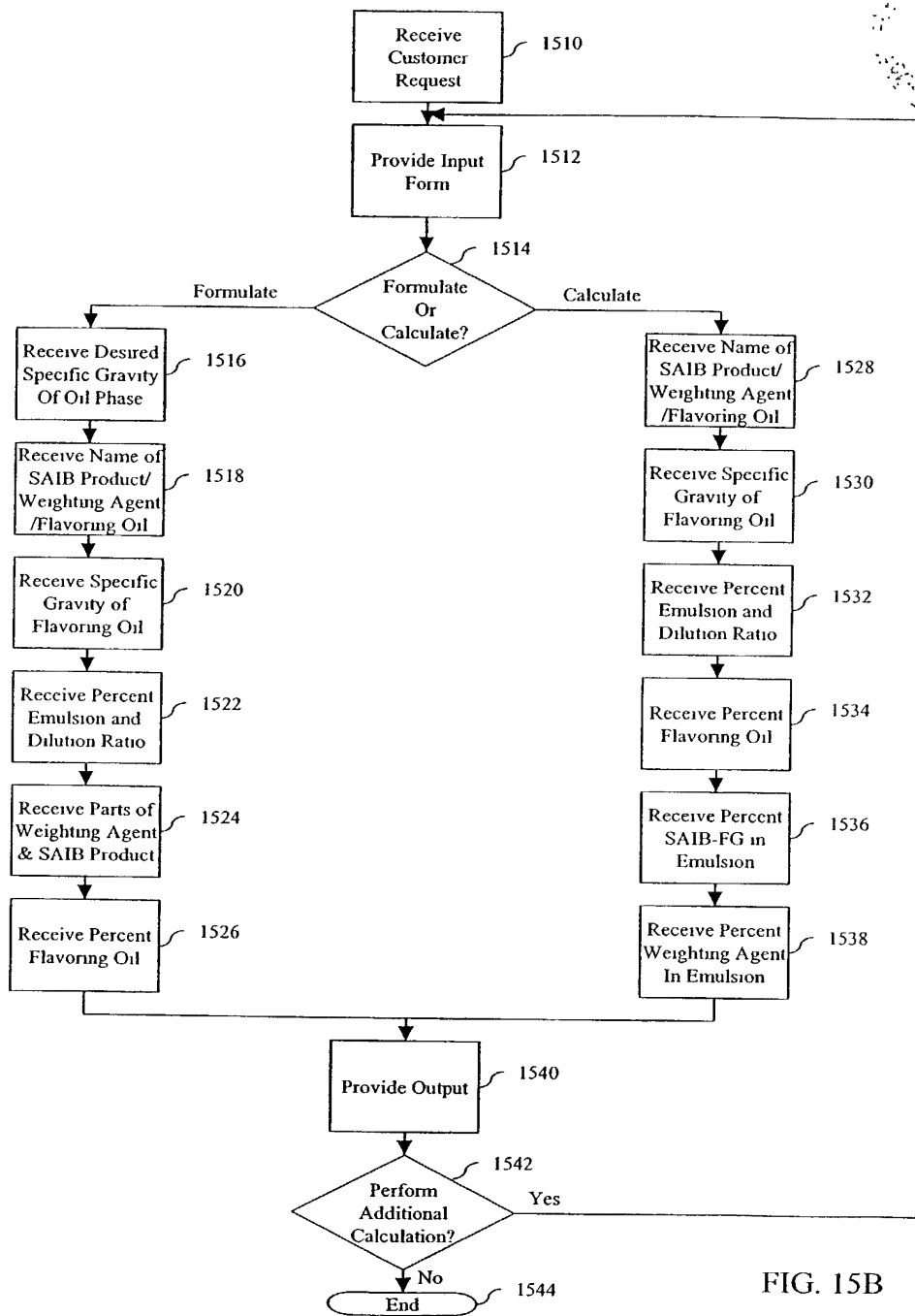
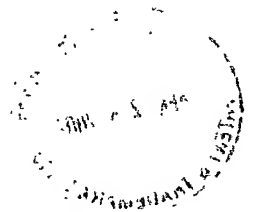


FIG. 15B

Appln. Ser. No. 10/039,482
SOFTWARE ENABLED WIZARDS
Inventors: BASSETT et al.
Express Mail No. EV 032 196 431 US

10039482 .042502



http://eastman/wizards/prototype/sabformulation/SAIBInfo.asp - Microsoft Internet Explorer

Wizard
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SAIB Beverage Formulation

EASTMAN

How To Use The Wizard Close Window

*=Required Field

To access the online Eastman SAIB-FG brochure, click here [Eastman SAIB-FG Brochure](#)
For additional information about Eastman SAIB, click here [SAIB The Oldest New Ingredient](#)
For information on regulations, click here [Regulatory Status of SAIB](#)

Federal Register listing for SAIB [SAIB Federal Register Excerpt](#)
For additional information about specific SAIB products, click here. [Eastman SAIB Products Information](#)

General Information

Enter Project Description: **HELP?**

Enter Sample description: Orange flavored Emulsion

Do you wish to: (Choice 1) Formulate to a desired oil phase specific gravity or (Choice 2) Calculate an oil phase specific gravity from existing ratios of oil and weighting agents? Choice 1

Choice 1

Enter desired specific gravity of oil phase: **HELP?**

Select name of SAIB product: -Select One-

Select name of additional weighting agent: -Select One-

Enter name of flavoring oil to be used:

Enter specific gravity of flavoring oil:

Intermediate values

Dilution ratio	390.1
Specific Gravity of Weighting agent	0.00
Specific Gravity of SAIB Product	0.00
Specific gravity of SAIB in SAIB Product	0.00
Percent SAIB in SAIB Product	0.00
Specific Gravity of Weighting Agent(s)	0.00
Ratio of weighting agents to oil	0.1

Done

FIG. 15C

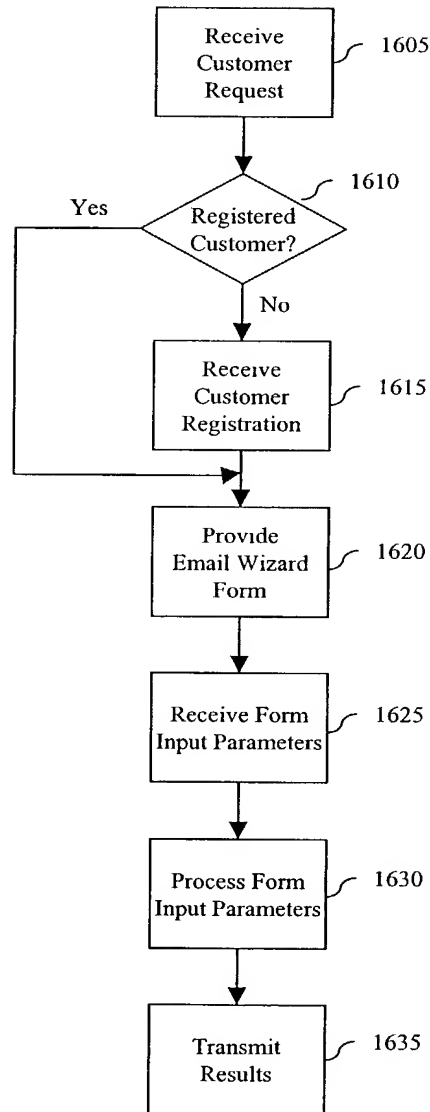


FIG. 16

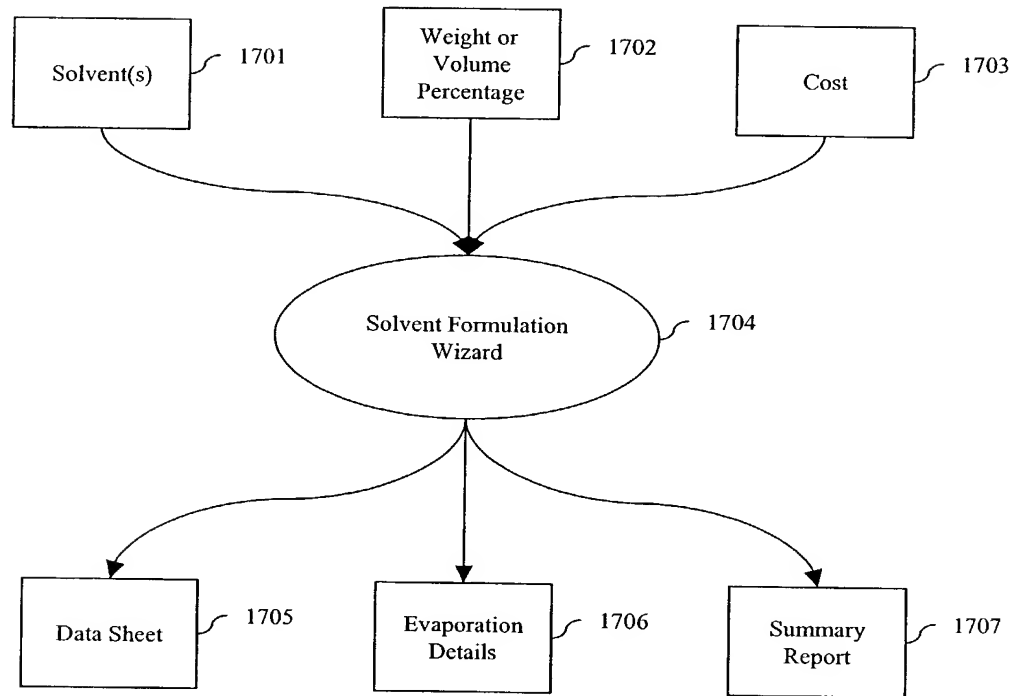
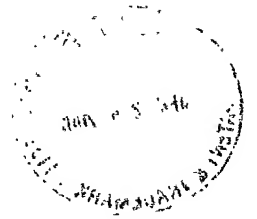


FIG. 17A

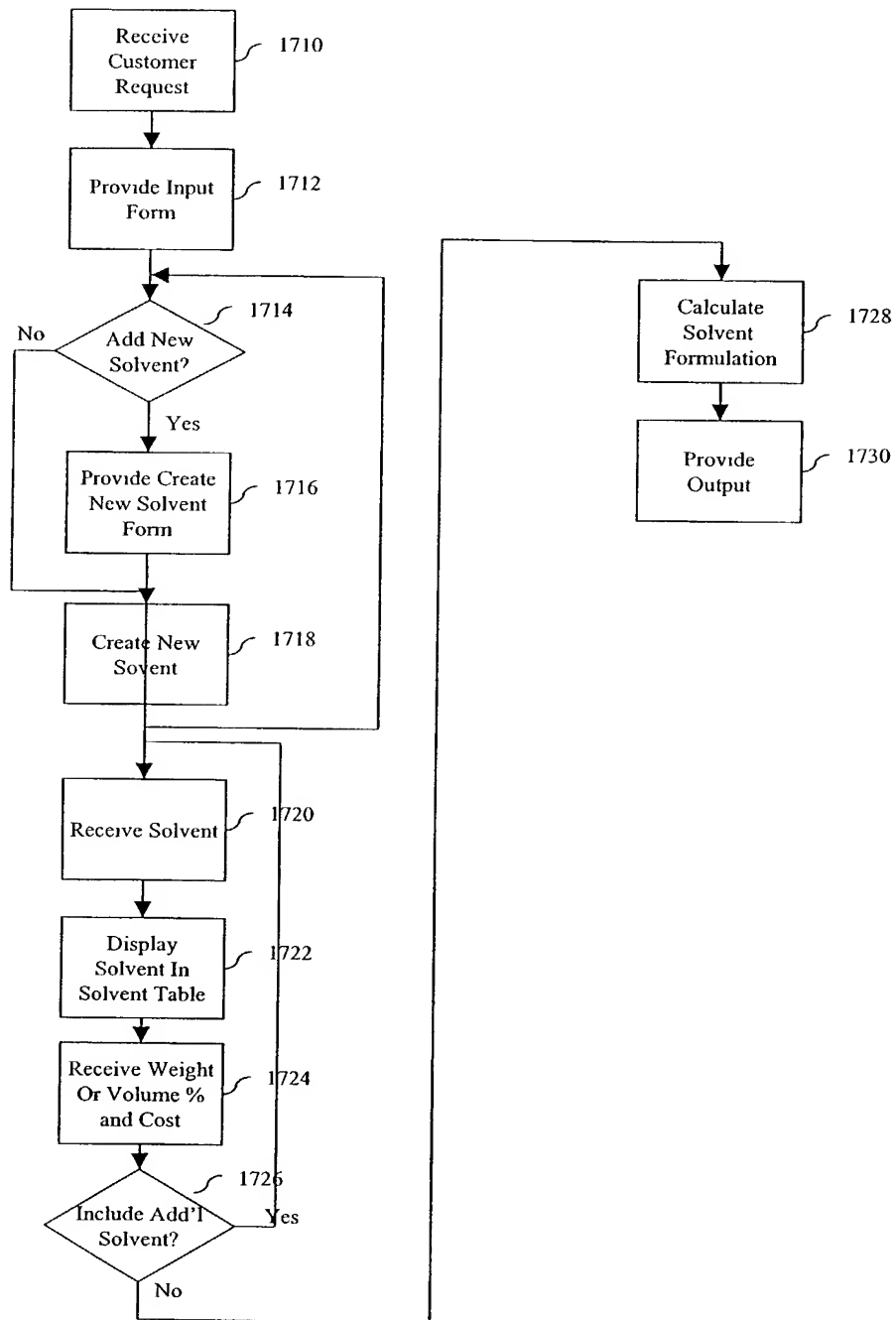


FIG. 17B

1750

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FIG. 17C

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FIG. 17D

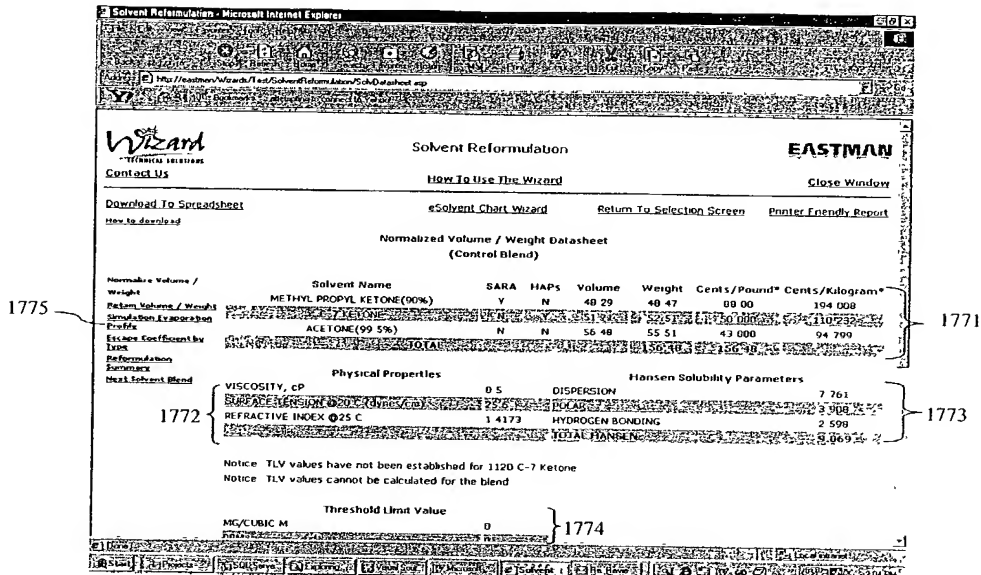


FIG. 17E

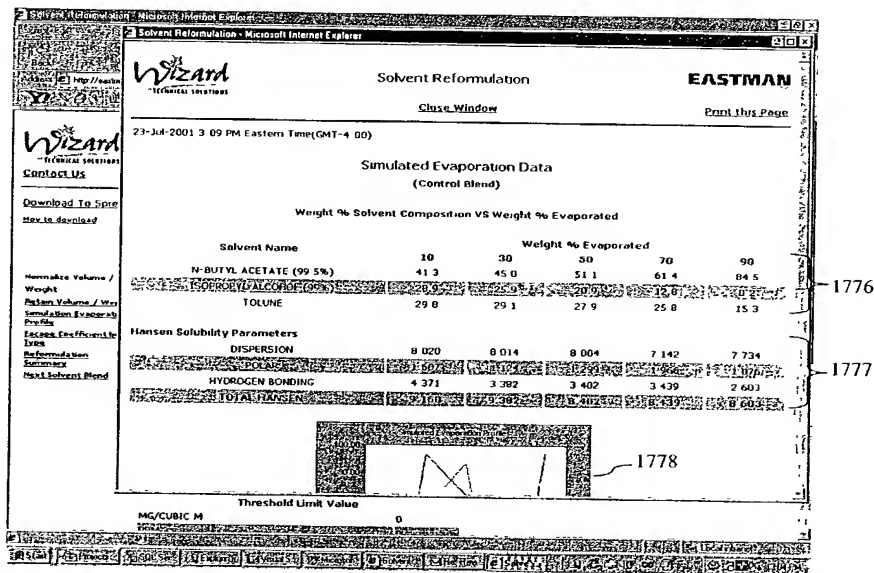


FIG. 17F

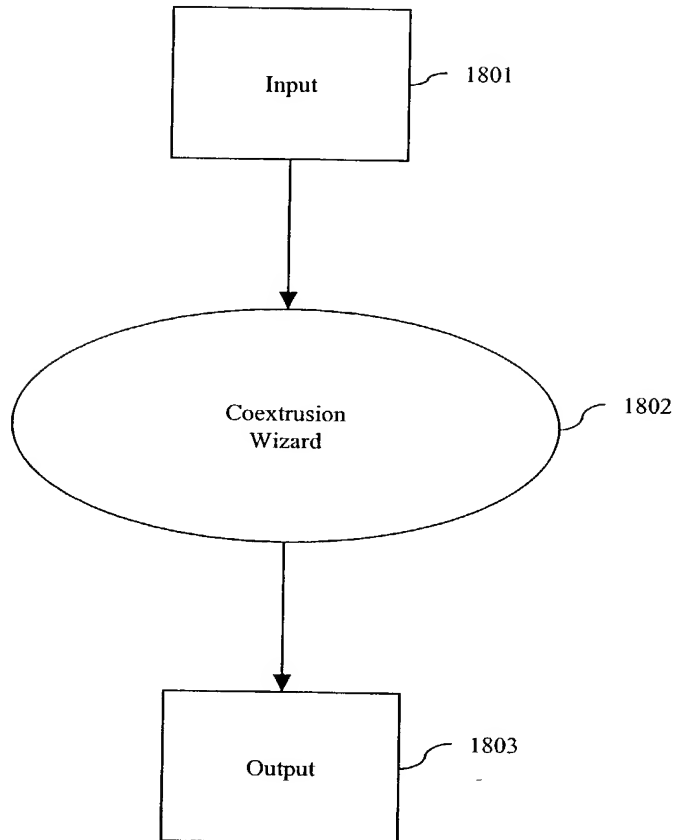
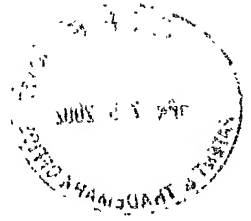
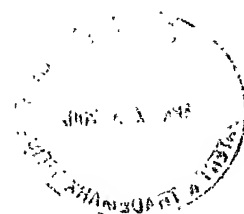


FIG. 18

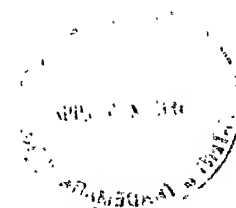
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10039482 . 042502



Compare Search Help	
Solvents Selection Criteria For a list of all solvents select 'All' for each criteria and click Create Report .	
Supplier: <input type="radio"/> All <input type="radio"/> Eastman	Flash Point: <input type="radio"/> All <input type="radio"/> Non-Flash ($\geq 60.5^{\circ}\text{C}$ (141°F)) <input type="radio"/> Flash ($< 60.5^{\circ}\text{C}$ (141°F))
Evaporation Rate: <input type="radio"/> All <input type="radio"/> Fast (≥ 3.0) <input type="radio"/> Medium (3.0 - 0.6) <input type="radio"/> Slow (0.6 - 0.12) <input type="radio"/> Very Slow (< 0.12)	Water Solubility: <input type="radio"/> All <input type="radio"/> Soluble <input type="radio"/> Insoluble
Nitrocellulose Solubility: <input type="radio"/> All <input type="radio"/> Active <input type="radio"/> Latent <input type="radio"/> Diluent	HAPS: <input type="radio"/> All <input type="radio"/> Eastman non-HAPs
Sort By: <input type="radio"/> Name <input type="radio"/> Flash Point <input type="radio"/> Evaporation Rate	Chemical Grade: <input type="radio"/> All <input type="radio"/> Urethane <input type="radio"/> Trace Metals (< 10 ppb)
Create Report Reset Criteria Return to e-Solvent Home Page	

FIG. 19A



Sort By:
☒ Name ☐ Flash Point
☐ Evaporation Rate

Solvents Report

Selection Criteria: Sorted By Name, Supplier = Eastman, Flash Point = Flash (<60.5°C (141°F)), Evap Rate = Fast (>=3.0), Water = All, Nitrocellulose = All, HAPS = All, Chemical Grade = All

Solvent	Eastman Product?	Evaporation Rate, nBuOAc = 1	Flash Point
<u>EASTMAN Acetone, High Purity Sales Grade</u>	Yes	6.3	-20°C (-4°F)
<u>EASTAPURE Ethyl Acetate</u>	Yes	4.1	-4°C (24°F)
<u>EASTMAN Ethyl Acetate, 85-88%</u>	Yes	4.2	-3°C (27°F)
<u>EASTMAN Ethyl Acetate, Urethane Grade</u>	Yes	4.1	-4°C (24°F)
<u>EASTMAN Isopropyl Acetate</u>	Yes	3	2°C (35°F)
<u>EASTMAN Methyl Acetate</u>	Yes	6.0	-13°C (9°F)
<u>EASTMAN Methyl Acetate</u>	Yes	6.0	-15°C (9°F)
<u>EASTMAN Methyl Acetate</u>	Yes	6.0	-13°C (5°F)
<u>EASTMAN Methyl Acetate</u>	Yes	6.0	-15°C (5°F)

[Return to Selection Page](#)

[Printer Friendly Report](#)

FIG. 19B

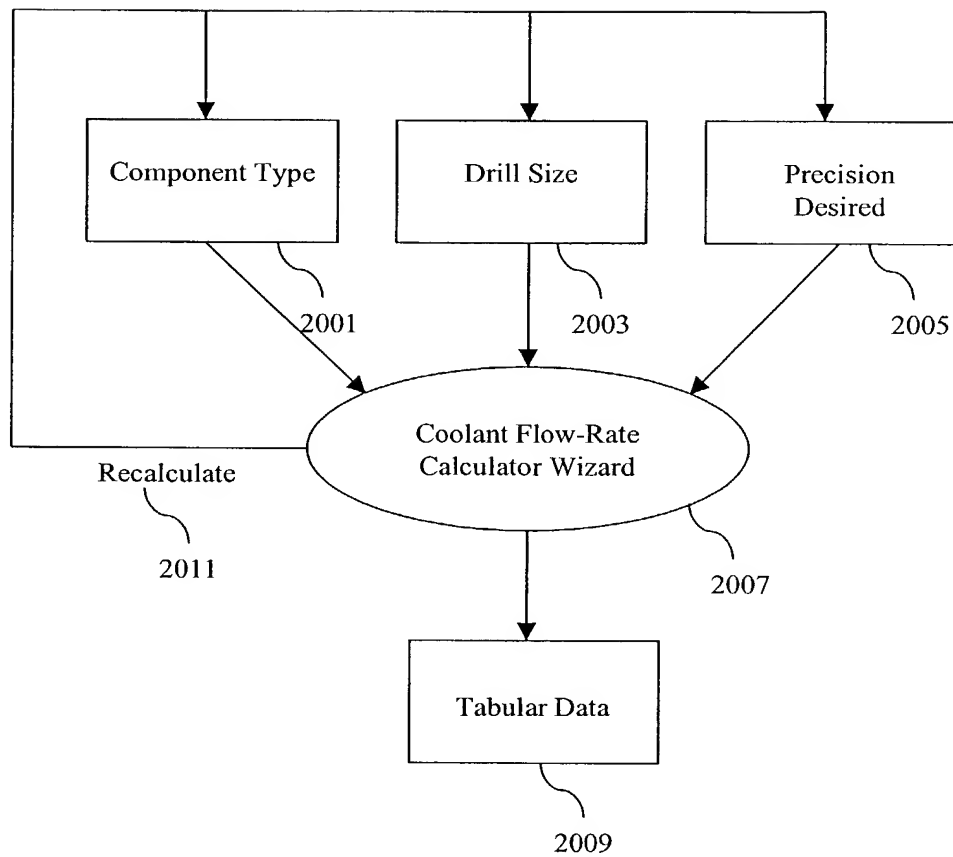


FIGURE 20A

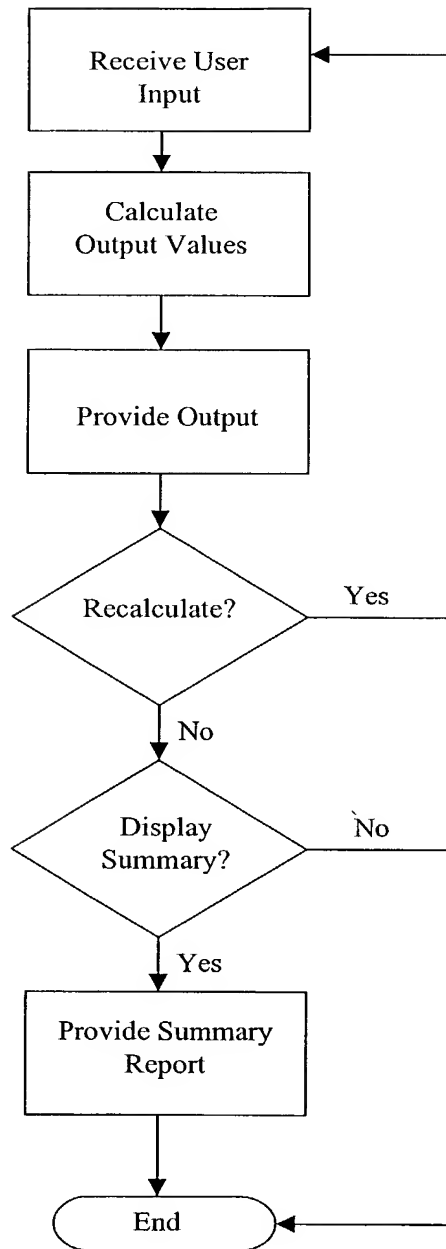


FIGURE 20B

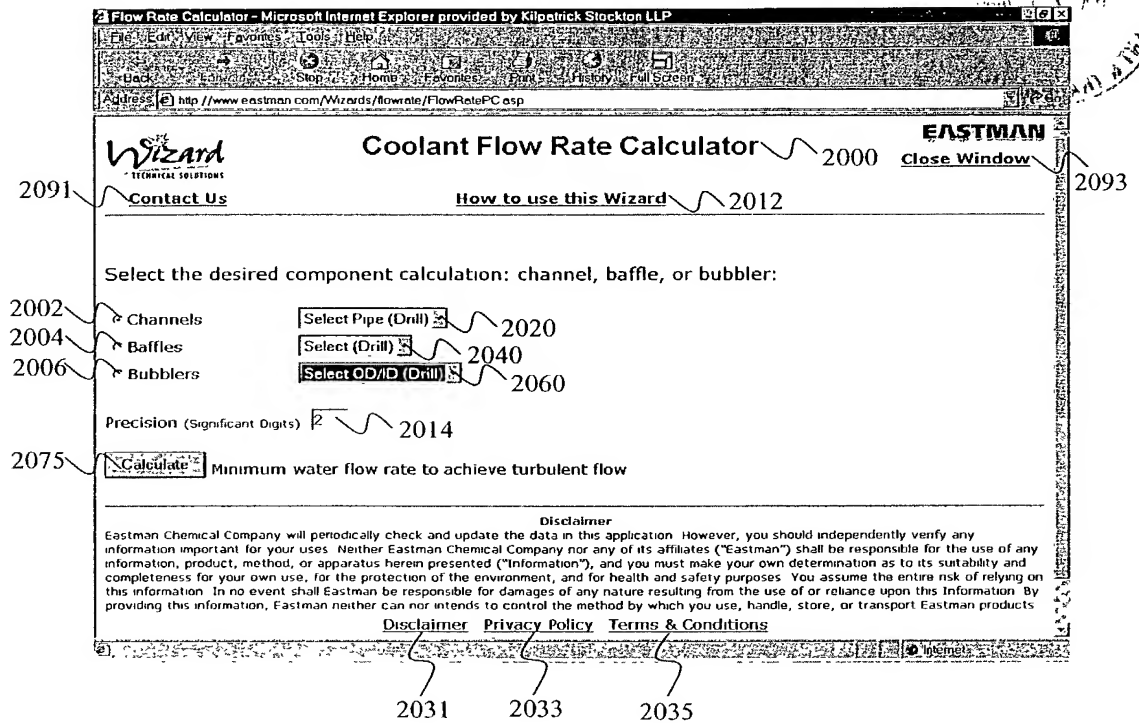


FIGURE 20C

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Flow Rate Calculator - Microsoft Internet Explorer provided by Kilpatrick Stockton LLP

Address: http://www.eastman.com/Wizards/FlowRate/FlowRatePC.asp

Wizard TECHNICAL SOLUTIONS **2000B** **EASTMAN** Close Window

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Channel Baffle Bubbler
3/8 (0.578) Select (Drill) Select OD/ID (Drill)

Precision (Significant Digits) 2

Calculate

Minimum water flow rate to achieve turbulent flow

Component = Channel; Selected Value = 3/8 (0.578); Precision = 2

Water Temperature (F)	Minimum Flow Rate (gpm)
40	1.69
50	1.44
60	1.23
70	1.08
80	0.94
90	0.83

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FIGURE 20D

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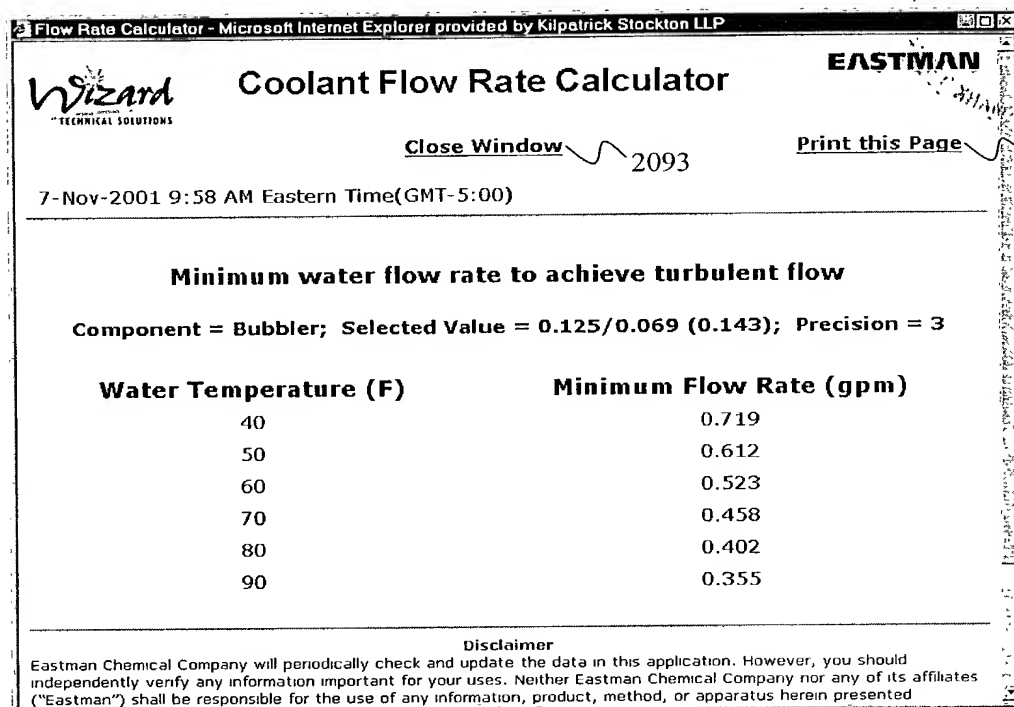


FIGURE 20E